CURRITUCK COMMUNITY PARK - PHASE III

SHORTCUT ROAD
BARCO, CURRITUCK COUNTY, NORTH CAROLINA 27917

JULY 1, 2025 - CURRITUCK COUNTY SITE PLAN SUBMITTAL

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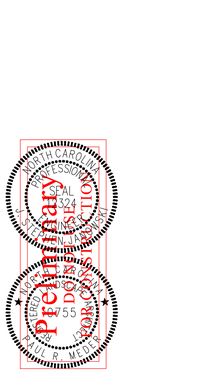

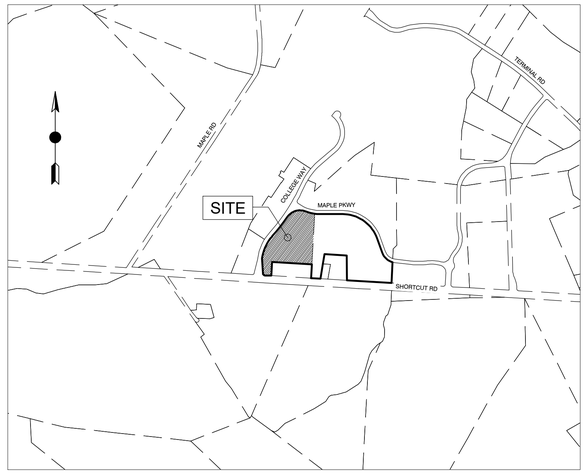

VICINITY MAP

1" = 1000' - 0"

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Do Not Use for Construction - PRELIMINARY

1. TOPOGRAPHICAL DATA PERFORMED BY RIVERS AND ASSOCIATES.

2. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OF FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. THE OWNER SHALL PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF ANY EXISTING FACILITIES.

3. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.

4. ALL STRUCTURAL FILL MATERIAL SHALL BE FREE OF ALL STICKS, ROCKS, AND CLUMPS OF MUD.

5. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN AN APPROVED SOLID WASTE LANDFILL.

6. PROPOSED ROADWAY CONSTRUCTION WITH WATER AND S.S.. STREETS TO HAVE STANDARD 30" VALLEY CURB. PRIVATE STREETS.

7. THERE IS EXISTING UNDERGROUND WATER, S.S., ELECTRICAL, OR FIBER OPTIC ON-SITE OR WITHIN CLOSE PROXIMITY. CONTRACTORS SHALL CALL 811 48 HOURS PRIOR TO DIGGING. CONTRACTORS SHALL DIG WITH EXTREME CAUTION.

8. CONCRETE SUB SHALL BE RESPONSIBLE FOR ALL SCORE JOINTS AND EXPANSION JOINTS, CONTRACTOR TO SUBMIT PROPOSED SCORE JOINT PLAN TO THE ENGINEER PRIOR TO POURING.

9. CONTRACTOR TO FURNISH ALL PAVEMENT MARKINGS AS SHOWN.

10. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CONTACT THE NC ONE CALL CENTER AT LEAST 72 HOURS PRIOR TO DIGGING @ 811. RIVERS AND ASSOCIATES HAS ONLY LOCATED THE UTILITIES THAT ARE ABOVE GROUND AT THE TIME OF FIELD SURVEY. UNDERGROUND LINES SHOWN HEREON ARE APPROXIMATE OR AS REPORTED BY VARIOUS RESPONSIBLE PARTIES. THE SURVEYOR DOES NOT GUARANTEE THAT ANY UNDERGROUND STRUCTURES SUCH AS UTILITIES, TANKS AND PIPES ARE LOCATED HEREON.

11. ALL PIPE LENGTHS ARE HORIZONATL DISTANCES AND ARE APPROXIMATE.

12. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND/OR LOCAL STANDARDS IMPOSED BY LOCAL UTILITY, NCDOT AND CURRITUCK COUNTY.

13. ALL CONSTRUCTION AND MATERIALS SHALL MEET CURRITUCK COUNTY AND NCDOT SPECIFICATIONS AND STANDARDS, LATEST EDITION. ALL WORK WITHIN NCDOT RIGHT-OF-WAY SHALL MEET THE SPECIFICATIONS AND STANDARDS OF NCDOT.

14. ALL CONCRETE PIPE IS TO BE ASTM C-76, CLASS III WITH RAM-NEK, UNLESS OTHERWISE NOTED.

15. THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD ZONE.

16. WETLANDS AND PONDS ARE DENOTED ON-SITE. NO IMPACTS TO WETLANDS ARE ANTICIPATED.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT RIGHT-OF-WAY. ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

18. PRIOR TO PLACING CABC STONE BASE, THE CONTRACTOR SHOULD NOTIFY THE PROJECT ENGINEER TO INSPECT AND PROOF ROLL THE SUBGRADE. ANY STONE PLACED WITHOUT PRIOR APPROVAL WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

19. DESIGN/FIELD CONDITIONS QUITE EASILY MAY VARY FROM THAT REPRESENTED IN THE INITIAL SOILS REPORT AND/OR TOPOGRAPHICAL REPORT. ISOLATED AREAS MAY SHOW UP WEAK AND ADVERSE SOILS OR GROUNDWATER CONDITIONS MAY BE DISCOVERED THAT WERE NOT REVEALED DURING THE INITIAL SOILS INVESTIGATION. THEREFORE, THE OWNER/CLIENT IS TO BE AWARE THAT STOCKS ENGINEERING WILL NOT AND CANNOT BE HELD RESPONSIBLE FOR ANY FAILURES TO EITHER A STREET OR PARKING LOT PAVEMENT DESIGN UNLESS WE CAN BE FULLY AND TOTALLY INVOLVED IN THE CONSTRUCTION PROCESS WHICH MAY INCLUDE, BUT MAY NOT NECESSARILY BE LIMITED TO, TESTING SUBGRADE AND BASE DENSITY, ENGAGING THE DESIGN ENGINEER TO CALL IN A SOILS ENGINEER FOR CONSULTATION AND ADVICE, ETC. - STEPS WHICH TAKEN ALTOGETHER WITH THE INITIAL DESIGN SHOWN ON THE PLANS, CONSTITUTE THE COMPLETE DESIGN OF THE ROAD, STREET OF PARKING AREA (PRIVATE OR PUBLIC). THE DESIGN ENGINEER MUST BE GIVEN THE FULL LATITUDE AND OPPORTUNITY TO COMPLETE THE DESIGN BY FULLY PARTICIPATING IN THE CONSTRUCTION PROCESS. PLAN DESIGN IS A SMALL PORTION OF THE DESIGN AND CANNOT BE SEPARATED FROM THE CONSTRUCTION PROCESS IF THE OWNER'S/CLIENT'S DESIRE IS TO HAVE THE DESIGN ENGINEER STAND BEHIND THE COMPLETED DESIGNED PROJECT.

20. ALL UTILITY SERVICES, (POWER, TELEPHONE, CABLE, ETC.) ARE PROPOSED TO BE UNDERGROUND. DO NOT SOD, SEED OR MULCH DISTURBED AREAS UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN INSTALLED.

21. SITE LIGHTING IS TO BE INSTALLED BY DUKE ENERGY.

22. PROPERTY IS TO BE SURVEYED BY CURRITUCK COUNTY .

23. THE BUILDING SETBACK LINES SHOWN ON THIS PLAT ARE FOR THE ENGINEER'S USE IN ESTABLISHING MINIMUM LOT FRONTAGES AT THE SETBACK LINE AND FOR RESERVING SUFFICIENT BUILDING AREA. BUILDING CONTRACTORS ARE TO VERIFY LOT LINE SETBACKS BEFORE SETTING FORMS OR DIGGING FOOTINGS. THERE ARE NO AGENCY IMPOSED SETBACK LINES AT FLOWERS.

24. REGULATORY SIGNS, STOP SIGNS AND ADA SIGNS SHALL BE MANUFACTURED FROM HIGH INTENSITY REFLECTIVE MATERIALS.

25. ALL EXCESS TOPSOIL AND UNCLASSIFIED EXCAVATION IS TO BE HAULED OFF-SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER.

26. ALL SITE CONSTRUCTION MUST BE INSPECTED BY THE PROJECT ENGINEER AT THE FOLLOWING STAGES:
A. COMPLETION OF GRADING SUB GRADE PRIOR TO TO PLACING STONE BASE.
B. COMPLETION OF STONE PLACEMENT PRIOR TO PAVING.
C. FINAL INSPECTION WHEN ALL WORK IS COMPLETE.

27. THE SURVEYOR DID NOT VISIBLY SEE ANY CEMETERIES IN ANY OPEN AREAS UNLESS OTHERWISE NOTED.

28. THIS PROPERTY DOES NOT DEPICT ENCUMBRANCES THAT ARE FOUND DURING A THOROUGH TITLE SEARCH.

29. ALL HVAC UNITS FOR THE PROPOSED BUILDING WILL BE SCREENED FROM PUBLIC RIGHT OF WAY.

30. ALL CURB AND GUTTER TO BE 30" STANDARD VALLEY CURB AND GUTTER. ALL CURB AND GUTTER WITHIN NCDOT R/W SHALL BE 30" STANDARD CURB AND GUTTER.

31. ALL CURB AND GUTTER AND SIDEWALK CONCRETE IS TO BE MINIMUM 3,000 PSI AT 28 DAYS, AIR ENTRAINED.

32. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS INDICATED OTHERWISE.

33. PROVIDE HANDICAP SIGNS, MARKING AND RAMPS AS SHOWN.

34. HANDICAP RAMPS ARE TO MEET "ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" AS DETAILED IN THE FEDERAL REGISTER, VOLUME 56, NUMBER 144 DATED JULY 26, 1991. RULES AND REGULATIONS ACTIVATED JANUARY 26, 1992. FOR ADDITIONAL INFORMATION REFER TO THE NC STATE BUILDING CODE VOLUME 1-C, "MAKING BUILDINGS AND FACILITIES ACCESSIBLE TO THE USEABLE BY THE PHYSICALLY HANDICAPPED", 1991 EDITION. ALL STREET RETURNS TO HAVE H.C. RAMPS. H.C. RAMPS SHALL MEET NCDOT STANDARDS/SPECIFICATIONS.

35. CONTRACTOR SHALL NOT POUR ANY CONCRETE BEFORE FORMS ARE INSPECTED BY THE PROJECT ENGINEER AND/OR OWNER. ANY CONCRETE THAT HAS NOT BEEN APPROVED BY THE ENGINEER AND/OR OWNER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

36. A 10' UTILITY, DRAINAGE AND ROAD MAINTENANCE EASEMENT IS RESERVED ALONG AND ADJACENT TO ALL STREET RIGHT OF WAYS.

37. CONTRACTOR SHALL SAW-CUT TO PROVIDE SMOOTH TRANSITIONS WHERE EXISTING ASPHALT AND/OR CURB AND GUTTER IS TO BE REMOVED.

38. THE CONTRACTOR SHALL PROVIDE ALL THE MATERIAL AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE UTILITIES. ALL PIPE AND FITTINGS SHALL BE INSPECTED PRIOR TO BEING COVERED.

39. ALL HANDICAP SPACES ARE TO RECEIVE A HANDICAP SIGN AND HANDICAP SYMBOL PAINTED ON THE ASPHALT. NOTE STALLS TO RECEIVE 'VAN ACCESSIBLE' SIGNAGE.

40. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE POINTS.

41. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 12 INCHES, WHICH EVER IS LESS, CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

42. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT PRICE THE REMOVAL AND DISPOSAL OF ANY EXCESS TOPSOIL/UNCLASSIFIED HE DETERMINES IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATION.

43. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. THE OWNER, SAMPSON COUNTY, CITY OF CLINTON & STOCKS ENGINEERING ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.

44. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES, CONSTRUCTION STAKEOUT ASSOCIATED WITH THE PROJECT.

45. ALL WATER LINE AND S.S. LINE INSTALLATION SHALL CONFORM TO THE STANDARDS AND DETAILS OF THE STATE OF NORTH CAROLINA DEPARTMENT OF HEALTH CONSTRUCTION PERMIT, CURRITUCK COUNTY.

46. ASPHALT PAVEMENT SHALL BE SMOOTH, WITH STRAIGHT OVERLAPPING SEAMS, FREE OF SEGREGATION, STAINS, BIRD BATHS, AND IMPERFECTIONS. ASPHALT PATCHING, SKIN PATCHES, OR RE-HEATING AND ROLLING WILL NOT BE ALLOWED. AREAS THAT ARE NOT ACCEPTABLE TO THE OWNER/ENGINEER WILL BE SAWCUT AND REMOVED. NO PATCH SMALLER THAN 200 SF WILL BE ALLOWED AND THE SAWCUTS MUST FALL ON A PAINT LINE OR EXISTING SEAM.

47. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE WATER AND S.S. LINES REQUIRED BY THE STATE OF NORTH CAROLINA DEPARTMENT OF HEALTH.

48. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DE-WATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.

50. TESTING BY CONTRACTOR: CONTRACTOR SHALL EMPLOY AT HIS EXPENSE AN OUTSIDE INDEPENDENT SOIL TESTING SERVICE (APPROVED BY THE OWNER) TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. COPIES OF RESULTS OF TESTS SHALL BE SUBMITTED BY THE TESTING SERVICE DIRECTLY TO THE CONTRACTOR, THE OWNER, AND THE STRUCTURAL ENGINEER. -- THE TESTING SERVICE WILL CLASSIFY PROPOSED ON-SITE AND BORROW SOILS TO VERIFY THAT SOILS COMPLY WITH SPECIFIED REQUIREMENTS AND TO PERFORM REQUIRED FIELD AND LABORATORY TESTING. (MINIMUM REQUIRED SOIL BEARING CAPACITY IS NOTED ON THE STRUCTURAL DRAWINGS). -- IN PAVED AND BUILDING SLAB AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 2000 SQUARE FEET OF FILL IN EACH COMPACTED FILL LAYER. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION. -- IN FOUNDATION WALL AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH OF FILL IN EACH COMPACTED FILL LAYER, WITH NO LESS THAN TWO TESTS ALONG A WALL FACE. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION.

51. COMPACTION: COMPACT EACH LAYER OF BACKFILL AND FILL SOIL MATERIALS AND THE TOP 12" OF SUBGRADE IN CUT AREAS TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 FOR STRUCTURES, SLABS, AND PAVEMENTS AND 90% OF MAXIMUM DENSITY FOR LAWNS OR UNPAVED AREAS.

52. THE BUILDING CONTRACTOR AND THE SITE WORK CONTRACTOR ARE TO COORDINATE THE INSTALLATION OF DRAINAGE PIPES AROUND THE BUILDING STRUCTURE.

53. ANY RELOCATION OF EXISTING UTILITIES WILL BE AT THE COST OF THE CONTRACTOR.

54. FIRE DEPARTMENT VEHICULAR ACCESS TO ALL STRUCTURES UNDER CONSTRUCTION SHALL BE PROVIDED AT ALL TIMES. IN AREAS WHERE GROUND SURFACE ARE SOFT OR LIKELY TO BECOME SOFT, HARD ALL WEATHER SURFACE ROADS SHALL BE PROVIDED AND MAINTAINED.

55. ADDRESS NUMBERS, BOTH COMMERCIAL AND RESIDENTIAL, MUST BE POSTED ON THE FRONT OF THE STRUCTURE NEAREST TO THE MAIN ENTRANCE IN A POSITION TO BE PLAINLY LEGIBLE, VISIBLE, AND UNOBSTRUCTED FROM THE STREET OR ROAD FRONTING THE PROPERTY.

56. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED CONSTRUCTION. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND REPLACEMENT OF ANY UTILITIES, CURB, GUTTER, PAVEMENT, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OF THE ORIGINAL WORKMANSHIP. THE CONTRACTOR SHALL VERIFY UTILITIES AND AVOID OR RELOCATE IF REQUIRED.

57. (CONSTRUCTION/SITE PLANS) WATER AND S.S. PERMIT APPLICATIONS HAVE BEEN APPROVED BY NCDEQ. PERMIT NUMBERS ARE AS FOLLOWS:
WATER PERMIT NUMBER: TO BE DETERMINED
S.S PERMIT NUMBER: TO BE DETERMINED

58. COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION. THIS INCLUDES APPROVED CONSTRUCTION PLANS, APPROVED EROSION CONTROL PLANS, ENCROACHMENT AGREEMENTS, DRIVEWAY PERMITS, WATER/S.S. PERMITS, ETC.

59. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL NCDOT, CURRITUCK COUNTY AND NCDENR STANDARDS AND SPECIFICATIONS.

60. ALL DRAINAGE CASTINGS TO RECEIVE BITUMINOUS COATING.

61. ALL DRAINAGE STRUCTURES OVER 42" DEEP SHALL HAVE STEPS.

62. FIRE HYDRANTS ARE TO BE INSTALLED AT EDGE OF RIGHT-OF-WAY AND AT PROPERTY CORNERS. LOCATIONS SHOWN ARE FOR CLARIFICATION.

63. MAINTAIN MINIMUM 3' COVER FOR ALL WATER PIPE.

64. WATERLINE PIPE SHALL BE C-900 PVC UNLESS OTHERWISE NOTED.

65. CORPORATION STOPS SHALL BE RATED A MINIMUM OF 300 PSI.

66. WHERE WATERLINE CROSSES:
A. SANITARY S.S.: WATERLINE SHALL CROSS ABOVE AND MAINTAIN 2' VERTICAL SEPARATION OR 10' OF HORIZONTAL SEPARATION. IF THIS SEPARATION CANNOT BE MAINTAINED OR IF WATER PASSES BELOW S.S., THEN BOTH WATER AND S.S. SHALL BE CLASS 50 DUCTILE IRON PIPE FOR A MINIMUM OF 10' EACH SIDE OF CROSSING.
B. STORM S.S: WHERE WATERLINE CROSSES ABOVE, MAINTAIN 1' VERTICAL SEPARATION. IF THIS SEPARATION CANNOT BE MAINTAINED OR WHERE WATER AND/OR S.S. CROSSES BELOW STORM, WATERLINE AND/OR S.S. SHALL BE CLASS 50 DUCTILE IRON PIPE FOR A MINIMUM OF 10' EACH SIDE OF CROSSING.

67. ALL GRAVITY S.S LINE IS SDR 35 PVC EXCEPT WHEN NOTED DIFFERNTLY ON PLANS OR AS FOLLOWS: ALL S.S LESS THAN 3' DEEP OR GREATER THAN 14' DEEP SHALL BE A MINIMUM CLASS 50 DUCTILE IRON.

68. EACH LOT SHALL HAVE A 4" S.S. SERVICE AND 3/4 WATER SERVICE AS SHOWN ON THE PLANS.

69. WATER SERVICES ARE TO BE GANGED AS SHOWN. GANGE SERVICES SHALL BE 1" IN A 1.5" PVC SLEEVE WHEN UNDER PAVEMENT.

70. WATER LINE TO BE PRESSURE TESTED TO 150 PSI FOR 2 HOURS.

71. DUCTILE IRON SANITARY S.S. SHALL HAVE THE INTERIOR COATED WITH SEWPER COAT OR PROTECTO 401.

72. CONTRACTOR TO TEST S.S. AND WATER LINE ACCORDING TO CURRITUCK COUNTY.

73. SANITARY S.S. SERVICES SHALL HAVE A DEPTH NO GREATER THAN 6' BELOW FINISHED GRADE AT TERMINATION OF LATERAL. THE LOCATION SHALL BE MARKED BY A 4" PVC TURN-UP AT THE END OF THE LATERAL. CONTRACTOR WILL MARK ALL S.S SERVICES WITH AN "S" IN THE FACE OF THE CURB.

74. WATER SERVICES SHALL HAVE A DEPTH NO GREATER THAN 6' BELOW FINISHED GRADE AT TERMINATION OF THE SERVICE. THE CONTRACTOR WILL MARK ALL WATER SERVICES WITH A "W" IN THE FACE OF THE CURB.

75. THE CONTRACTOR TO NOTIFY ENGINEER & CURRITUCK COUNTY 48 HRS PRIOR TO COMMENCEMENT OF CONSTRUCTION & ANY UTILITY BEING COVERED.

76. S.S. LINES SHALL BE PRESSURE TESTED WITH 5 PSI FOR 2 MINUTES WITH NO LEAKAGE.

77. S.S. MANHOLES SHALL BE EITHER VACUUM TESTED AT 10" MERCURY FOR 2 MINUTES WITH NO LEAKAGE OR PRESSURE TESTED AT 5 PSI FOR 2 MINUTES WITH NO LEAKAGE.

78. MANHOLES TO HAVE EPOXY COATING INSIDE (24 MILS) AND OUTSIDE (16 MILS) DONE IN 2 COATS BY THE MANUFACTURER PER NC SPECS. DIVISION 3, SECTION 9.3, HEAT SHRINK RUBBER CHIMNEY SEAL, AND ALL CASTINGS TO HAVE BITUMINIOUS COATING.

79. CURRITUCK COUNTY SPECIFICATIONS AND DETAILS MAY CONFLICT. THE MORE STRINGENT SHALL APPLY.

80. CONTRACTOR SHALL PRETEST ALL WATER AND S.S. PRIOR TO SCHEDULING INSPECTION WITH CURRITUCK COUNTY OR ENGINEER. RE-INSPECTIONS DUE TO FAILED TEST WILL BE BILLED TO THE CONTRACTOR AT $150 PER HOUR.

EXISTING CONDITIONS

LEGEND

CONTOURS
RIGHT OF WAY (R/W)
COUNTY GIS PARCEL LINES
TOP OF BANK (DITCH/SWALE)
TOE OF BANK (DITCH/SWALE)
CENTERLINE OF DITCH/SWALE
EASEMENT
COMMUNICATION LINE (NC811)
GAS LINE (GL) (NC811)
UNDERGROUND ELECTRIC (NC811 MARKING)
OVERHEAD ELECTRIC
GUY ANCHOR
SANITARY SEWER LINE (SS) (CITY OF KINSTON - NC811)
SEWER FORCE MAIN (CITY OF KINSTON)
WATER LINE (WL) (NC811 MARKING)
EDGE OF LANDSCAPING
STORM DRAINAGE PIPE
FENCE
WOOD LINE/ VEGETATION
EDGE OF CRUSHED ROCK
ROOF OVERHANG
BUILDING
HORIZONTAL CONTROL
TEMPORARY BENCHMARK (TBM)
SANITARY SEWER MANHOLE (SSMH)
CLEANOUT
TELEPHONE PEDESTAL
FIBER OPTIC MARKER
ROOF DRAIN
WOOD POST
METAL POST
MAIL BOX
SHRUB
WATER VALVE
WATER METER
FIRE HYDRANT
HOSE BIB
SIGN
LIGHT POLE
UTILITY POLE
UTILITY POLE W/ LIGHT
ELECTRIC METER
EMERGENCY SHUT OFF
GAS METER
GAS CONNECTION
EXISTING IRON PIPE
EXISTING IRON ROD
EXISTING RIGHT OF WAY MONUMENT DISTURBED

EROSION CONTROL LEGEND

EXISTING CONTOURS
PROPOSED CONTOURS
LIMITS OF DISTURBANCE
BASIN DRAINAGE BOUNDARY
TREE PROTECTION FENCE
SILT FENCE
SUPER SILT FENCE
COMBO TREE PRO/SILT FENCE
SILT FENCE OUTLET
DIVERSION DITCH
CLEAN WATER DITCH
POROUS BAFFLE
STORM DRAINAGE PIPE
RIP-RAP ENERGY DISSIPATORS
CONSTRUCTION ENTRANCE
ROLLED EROSION CONTROL
MATTING
TEMP. INLET PROTECTION
COMPOST SOCK
TEMPORARY STOCKPILE
TEMP. ROCK CHECK DAM
CONCRETE WASHOUT

GRADING AND STORM DRAINAGE

LEGEND

EXISTING		PROPOSED
	EXISTING CONTOURS	
	LIMITS OF DISTURBANCE	LOD
	TREE PROTECTION FENCE	TP
	COMBO TREE PRO/SILT FENCE	SF-TP
	CATCH BASIN	
	STORM SEWER MANHOLE	
	DROP INLET	
	RAISED TOP YARD INLET	
	OUTLET CONTROL STRUCTURE	
	FLARED END SECTION	
	END WALL	
	STORM SEWER	

BACK OF CURB SPOT ELEVATION × 13.55 BC
TOP OF CONCRETE SPOT ELEVATION × 12.45 TC
TOP OF ASPHALT SPOT ELEVATION × 11.30 TA
BOTTOM OF RAMP SPOT ELEVATION × 11.56 BR
TOP OF RAMP SPOT ELEVATION × 13.50 TR
FINISH GRADE SPOT ELEVATION × 12.24 FG
TOP OF BOARDWALK SPOT ELEVATION × 14.00 TBW
TOP OF BANK SPOT ELEVATION × 11.09 TB
HIGH POINT SPOT ELEVATION × 10.50 HP
FINISHED GRADE SLOPE 1.25%

EXISTING CONDITIONS ABBREVIATIONS

OD	OUTSIDE DIAMETER
EL.	ELEVATION
HPST	HIGH PRESSURE STEEL
HVAC	HEATING, VENTILATION, AIR CONDITIONING
N/F	NOW OR FORMERLY
P.N.	PARCEL NUMBER
D.B.	DEED BOOK
P.C.	PLAT CABINET
SL.	SLIDE
PG.	PAGE
CLF	CHAIN LINK FENCE
BW	BARBED WIRE
CONC.	CONCRETE
TYP.	TYPICAL
UGE	UNDERGROUND ELEC.
PVC	POLYVINYL CHLORIDE (WL)
DIP	DUCTILE IRON PIPE
CM	CREPE MYRTLE
TEL.	TELEPHONE
CBBC	CATCH BASIN BACK OF CURB
DI	DRAINAGE INLET
HCR	HANDICAP RAMP
FFE	FINISH FLOOR ELEVATION
INV	INVERT
(E)	EAST
(W)	WEST
(N)	WEST
(S)	SOUTH
CP	CONCRETE PIPE

UTILITY PLAN

LEGEND

EXISTING		PROPOSED
	FIRE HYDRANT	
	WATER VALVE	
	WATER FITTING	
	WATER TEE	
	WATER CROSS	
	WATER REDUCER	
	PLUG	
	WATER METER	
	WATER FOUNTAIN	
	CLEANOUT	
	SANITARY SEWER MANHOLE	
	CATCH BASIN	
	STORM SEWER MANHOLE	
	DROP INLET	
	RAISED TOP YARD INLET	
	FLARED END SECTION	
W	DOMESTIC WATER LINE	W
F	FIRE WATER LINE	F
RCW	RECLAIMED WATER LINE	RCW
S	SANITARY SEWER	S
FM	FORCE MAIN	FM
	STORM SEWER	
G	GAS LINE	G
FO	FIBRE OPTIC	FO

LIST OF ABBREVIATIONS

AC	ACRE
BNDY	BOUNDARY
BOC,BC	BACK OF CURB
BOW	BACK OF WALK
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
BW	BOTTOM OF WALL (AT FINISHED GRADE)
C&G	CURB AND GUTTER
CB	CATCH BASIN
CIP	CAST-IN-PLACE
CFS	CUBIC FOOT PER SECOND
CL	CONTROL LINE/CENTER LINE
CMP	CORUGATED METAL PIPE
CONC.	CONCRETE
CU. FT (CF)	CUBIC FOOT
CU YD(CY)	CUBIC YARD
DCB	DOUBLE CATCH BASIN
DA	DRAINAGE AREA
DB	DEED BOOK
DBH	DIAMETER AT BREAST HEIGHT
DG	DESIGN GROUND
DI	DROP INLET
DIP	DUCTILE IRON PIPE
D/S	DOWNSTREAM
DWG	DRAWING
ECM	EXISTING CONCRETE MONUMENT
EIA	EXISTING IRON AXLE
EIP	EXISTING IRON PIPE
EIR	EXISTING IRON ROD
ELEV, EL	ELEVATION
EOA	EDGE OF ASPHALT
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
ESC	EROSION AND SEDIMENT CONTROL
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EW	END WALL
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FT.	FEET
FUT	FUTURE
G.S.	GENERAL STATUTE
HGL	HYDRAULIC GRADE LINE
HDPE	HIGH DENSITY POLYETHELENE
HP	HIGH PERFORMANCE POLYPROPYLENE
INV	INVERT
L	LENGTH
LBS	POUNDS
L_W	WEIR LENGTH
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
NAD	NORTH AMERICAN DATUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OBV	OBVERT
OG	ORIGINAL GROUND
O/S	OFFSET
OS	OUTSIDE
PL	PROPERTY LINE
PREC	PRECAST
PROP	PROPOSED
PVC	POLY VINYL CHLORIDE
PVI	POINT OF VERTICAL INFLECTION
PS	PUMP STATION
RTYI	RAISED TOP YARD INLET
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
SA	SURFACE AREA
SAN	SANITARY
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SF	SILT FENCE
SHLD	SHOULDER
SMH	SANITARY MANHOLE
SS	SANITARY SEWER
STM	STORM
STMH	STORM MANHOLE
STA	STATION
STD	STANDARD
SQ. FT (SF)	SQUARE FOOT
SQ YD(SY)	SQUARE YARD
TK	THICKNESS
TBA	TO BE ABANDONED
TBD	TO BE DETERMINED
TBR	TO BE REMOVED
TC	TOP OF CONCRETE
TP	TREE PROTECTION FENCING
TSB	TEMPORARY SKIMMER BASIN
TST	TEMPORARY SEDIMENT TRAP
TYP.	TYPICAL
TW	TOP OF WALL (AT FINISHED GRADE)
U/S	UPSTREAM
QTY	QUANTITY
VC	VERTICAL CURVE
YI	YARD INLET
W	WIDTH

NOTE: THIS LIST MAY NOT BE INCLUSIVE OF ALL ABBREVIATIONS USED WITHIN THE CONSTRUCTION DRAWING SET. IF THE CONTRACTOR IS UNSURE OF AN ABBREVIATION OR TERMINOLOGY USED WITHIN THIS CONSTRUCTION SET, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ENGINEER FOR CLARIFICATION. THE ENGINEER OR THE OWNER WILL NOT BE HELD LIABLE FOR MISINTERPRETATION OF THE CONSTRUCTION PLAN SET BY THE GENERAL CONTRACTOR OR ANY OF HIS SUB-CONTRACTORS.

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ISSUE/REVISIONS:

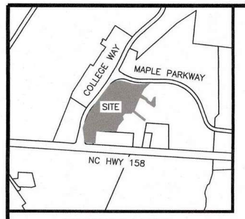
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

GENERAL NOTES AND LEGENDS

DESIGNED BY:	N/A
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C1.02

Do Not Use for Construction - PRELIMINARY



VICINITY MAP
(1"=1,000')

HORIZONTAL SURVEY CONTROL

POINT	LOCAL NORTHING (US FT-GROUND)	LOCAL EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION	GRID NORTHING (US FT-NAD 83/2011)	GRID EASTING (US FT-NAD 83/2011)
100	974,609.29'	2,877,953.10'	11.71'	CPNAIL-GPS 100	974,609.29'	2,877,953.07'
101	974,561.07'	2,878,353.97'	11.30'	CPNAIL-GPS 101	974,561.07'	2,878,353.97'

PROJECT CONTROL LOCALIZED TO GROUND AROUND RIVERS CONTROL POINT 101; CALCULATED COMBINED FACTOR = 0.99992410

VERTICAL SURVEY CONTROL

POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION
6091	974,627.72'	2,878,004.48'	15.50'	TOP OF HYDRANT
6090	974,172.87'	2,877,126.35'	12.43'	TOP OF HYDRANT

NORTH CAROLINA COUNTY OF CURRITUCK

I, JAMES W. ATKINSON III, P.L.S., CERTIFY THAT THE EXISTING TOPOGRAPHIC AND PLANIMETRIC INFORMATION SHOWN HEREON WAS DRAWN UNDER MY DIRECTION FROM AN ACTUAL SURVEY MADE BY JA, JS, AND GS ON 8/22/24–12/9/24 OF THE AREA SHOWN. BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM INFORMATION FOUND IN REFERENCED BOOK(S) AND PAGE(S). THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+, AND IN ACCORDANCE WITH THE US NATIONAL MAPPING ACCURACY STANDARDS. THE MAXIMUM VERTICAL ERROR IS NOT GREATER THAN ONE–HALF THE CONTOUR INTERVAL EXCEPT AS NOTED; THAT VERTICAL CONTROL WAS ESTABLISHED TO THE CLASS 'C' STANDARD VIA MULTIPLE NCGS RTN OBSERVATIONS ON CONTROL POINTS.

1) CLASS OF SURVEY:	CLASS A (HORIZ) CLASS C (VERT)
2) POSITIONAL ACCURACY:	2 CM(HORZ)
3) TYPE OF GPS FIELD PROCEDURE:	NCGS VRS RTN
4) DATE OF SURVEY WORK:	8/22/24 – 12/9/24
5) DATUM/EPOCH:	NAD83/2011
6) PUBLISHED CONTROL/FIXED CONTROL:	NCGS VRS RTN
7) GEOID MODEL:	GEOID18
8) COMBINED GRID FACTOR:	0.99992410
9) UNITS:	US SURVEY FEET

AND THAT THIS SURVEY MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600); WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 25TH *DAY OF JUNE, A.D. 2025.*

6/25/25
PROFESSIONAL LAND SURVEYOR LICENSE NO. L-5359

NORTH CAROLINA PROFESSIONAL SEAL L-5359 LAND SURVEYOR JAMES W. ATKINSON III
6/25/25

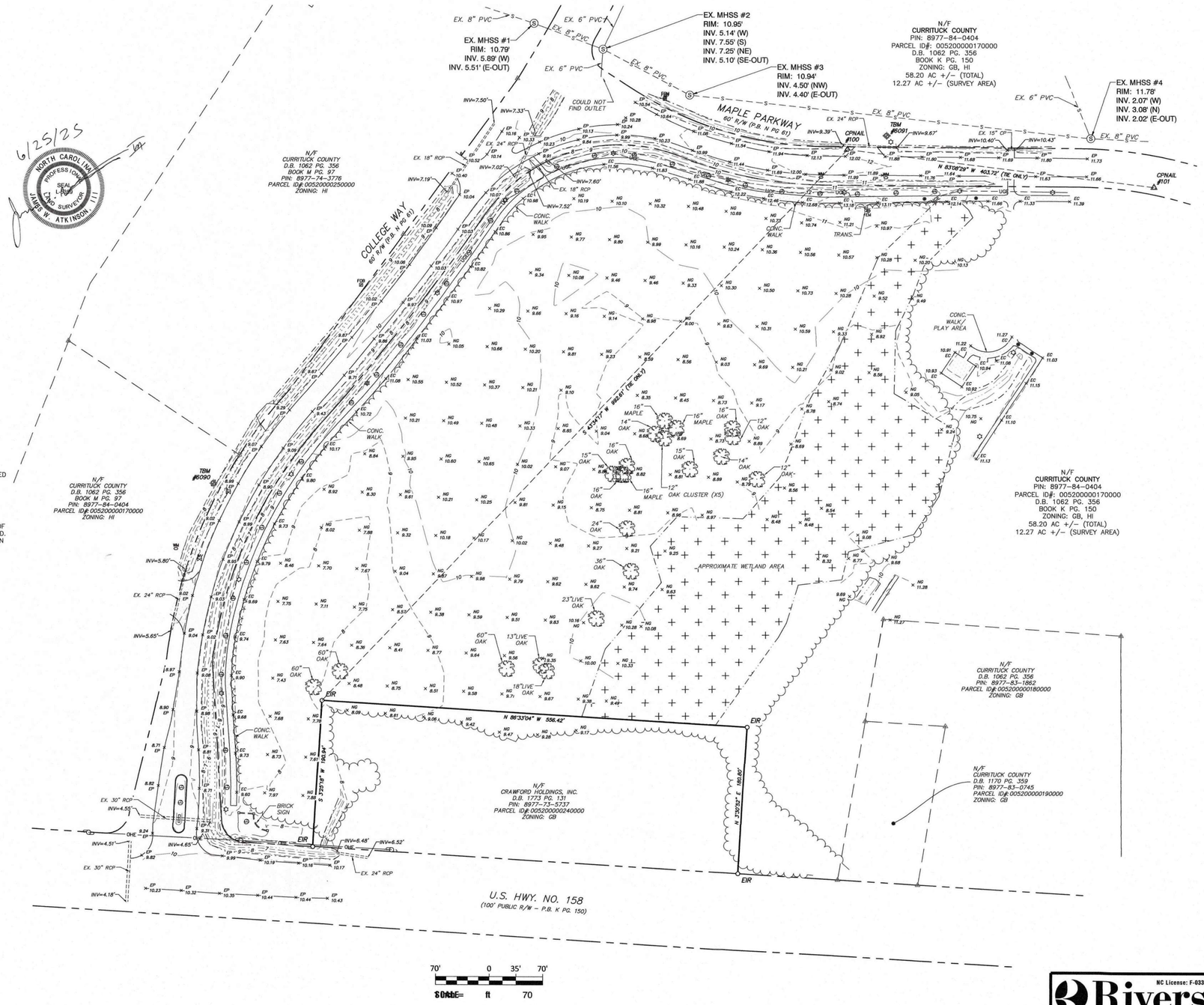
1. THE PURPOSE OF THIS PLAT IS TO DEPICT THE EXISTING TOPOGRAPHY AND PLANIMETRIC FEATURES OF THE SUBJECT PARCELS, AS OF THE DATE OF THIS SURVEY.
2. PROPERTIES SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS OF WAY, RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD.
3. ALL DISTANCES ARE HORIZONTAL GROUND MEASURED UNLESS SHOWN OTHERWISE.
4. THE PROPERTY IS LOCATED IN A ZONE "X" (AREAS OUTSIDE 1% ANNUAL CHANCE FLOOD 100 YEAR), AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 3720896600L, PANEL 8966, DATED 12/21/2018.
5. SURVEY AREA = 12.27 ACRES +/–. AREA DETERMINED BY COORDINATES.

CURRENT ZONING: GB, HI

7. UTILITIES: THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN ARE COMPRISED OF ALL SUCH UTILITIES AND IN THE AREA OF SURVEY EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND UTILITIES.
6. ELEVATIONS AND CONTOURS SHOWN ARE BASED ON NAVD 88 DATUM. VERTICAL CONTROL ESTABLISHED BY MULTIPLE NCGS RTN GPS OBSERVATIONS (CLASS C).
7. INSIDE THE WOODED AREA CONTAINS MOUNDS AND DEPRESSIONS DUE TO TREES, COUNTOUR INTERVALS MAY EXCEED THE 1/2' CONFIDENCE INTERVAL IN SOME AREAS.

REFERENCES:

D.B. 1062 PG. 356
BOOK K PG. 150
D.B. 1170 PG. 359
D.B. 1773 PG. 131
BOOK M PG. 97
BOOK N PG 61



NGRID NAD83/2011

LEGEND

- BOUNDARY
- ADJOINER LINE
- RIGHT-OF-WAY LINE
- STORM DRAIN PIPE
- OHE — OVERHEAD ELECTRIC LINE
- UGE — UNDERGROUND ELECTRIC LINE (BY MARKINGS)
- TOP OF BANK/SLOPE
- TOE OF BANK/SLOPE
- CENTERLINE OF DITCH
- BUILDING LINE
- EDGE OF CRUSHED ROCK
- EDGE OF APPROXIMATE WETLANDS
- EDGE OF LANDSCAPING
- EDGE OF WOODS/VEGETATION
- EDGE OF CONCRETE/BACK OF CURB
- EDGE OF PAVEMENT/ASPHALT
- TIE LINE
- CONTOUR LINE (MAJOR)
- CONTOUR LINE (MINOR)
- WV WATER VALVE
- WM WATER METER
- FIRE HYDRANT
- UTILITY/POWER POLE
- EM ELECTRIC METER
- TELEPHONE PEDESTAL
- FOB FIBER-OPTIC BOX
- FOM FIBER-OPTIC MARKER
- ORNAMENTAL LIVE OAK
- TREE (AS SPECIFIED)
- LIGHT POLE
- EIP EXISTING IRON PIPE
- EIR EXISTING IRON ROD
- SIP SET IRON PIPE
- NG NATURAL GROUND
- EC EDGE OF CONCRETE
- EP EDGE OF PAVEMENT
- TA TOP OF ASPHALT
- TOB TOB OF BANK/SLOPE
- TOE TOE OF BANK/SLOPE
- CLD CENTERLINE OF DITCH
- ASPHALT
- CONCRETE
- APPROXIMATE WETLANDS

ABBREVIATIONS

PIN	PARCEL IDENTIFICATION NUMBER
REID	REAL ESTATE IDENTIFICATION
N/F	NOW OR FORMERLY
D.B.	DEED BOOK
P.B.	PLAT BOOK
M.B.	MAP BOOK
P.G.	PAGE
INV.	INVERT
CI	CURB INLET
CB	CATCH BASIN
FES	FLARED-END SECTION
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
CLF	CHAIN-LINK FENCE
TOB	TOP OF BANK/SLOPE
TOE	TOE OF BANK/SLOPE
CLD	CENTERLINE OF DITCH
CLF	CHAIN-LINK FENCE
R/W	RIGHT-OF-WAY
S.R.	STATE ROAD
RD.	ROAD
BLVD.	BOULEVARD
EIP	EXISTING IRON PIPE
SIP	SET IRON PIPE
CONC.	CONCRETE
EX.	EXISTING

70' 0 35' 70'
1 inch = 70 ft

REVISIONS

TOPOGRAPHIC SURVEY FOR CURRITUCK COUNTY RECREATIONAL PARK

TOWN OF BARCO, CURRITUCK COUNTY, NORTH CAROLINA

OWNER: *CURRITUCK COUNTY*
ADDRESS: *P.O. BOX 9 CURRITUCK, NC 27929*

SURVEYED	JWA,JS,GS
DRAWN	JWA
CHECKED	JWA
APPROVED	P.M.
DATE	6/25/2025
SCALE	1" = 70'

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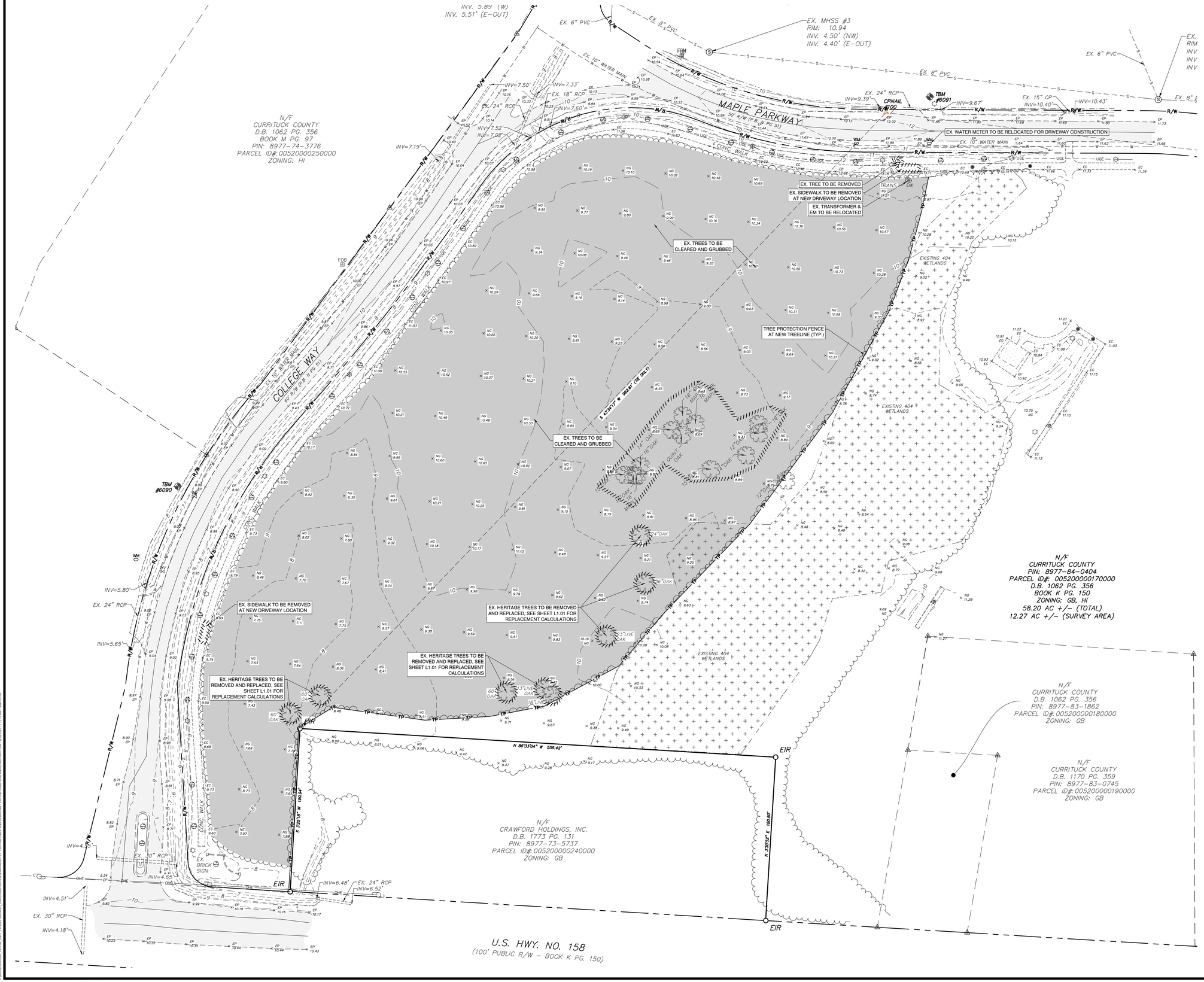
PROJECT NO.	2022109
DRAWING NO.	W-4224
SCALE	1"=70'
DATE	6/25/2025

SHEET NO. **C1.10**

DWG. NO. W-4224 SHEET NO. 1 OF 1

DWG. NO. W-4224



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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

EXISTING CONDITIONS AND DEMOLITION PLAN

DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C1.21

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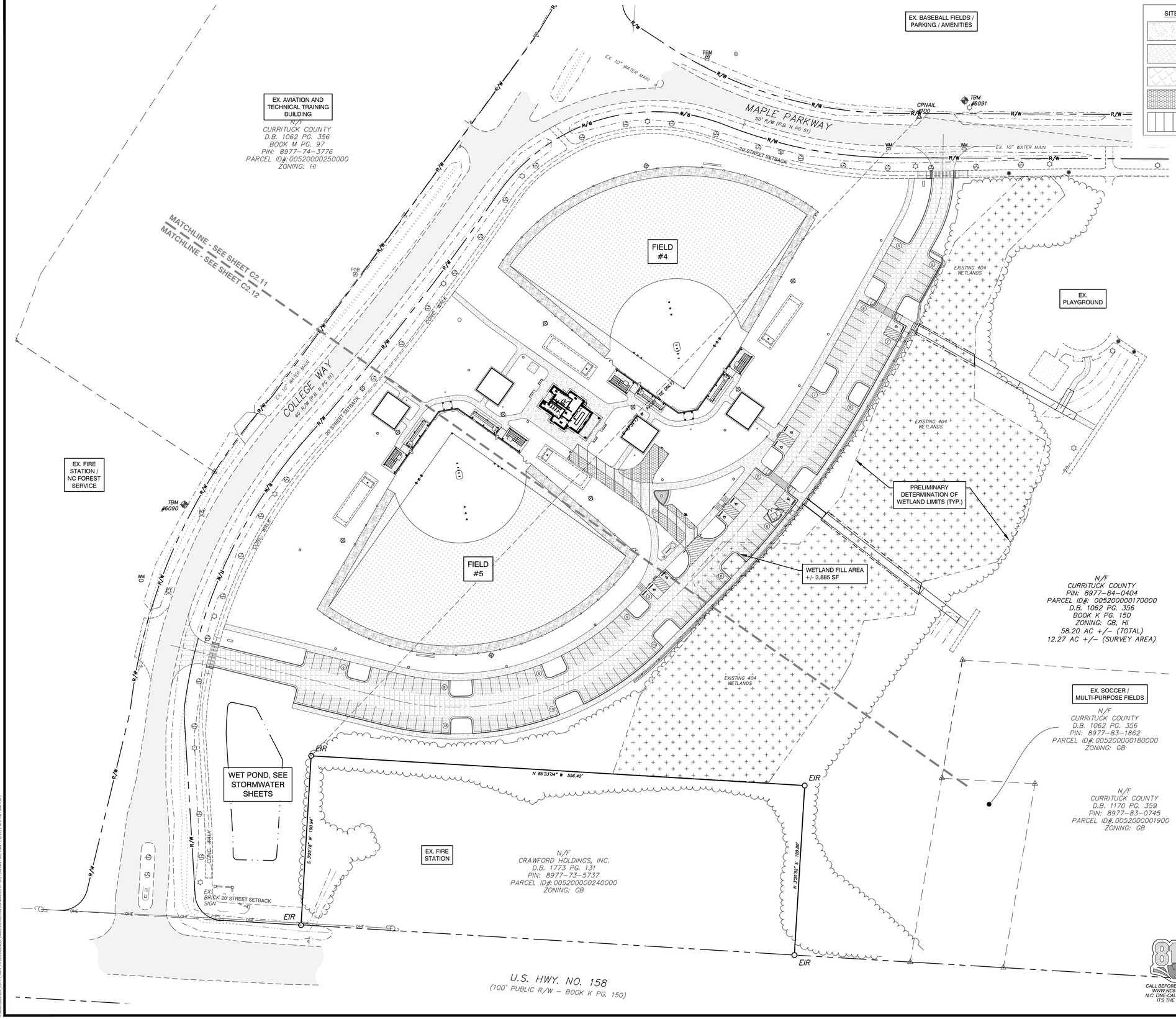

NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

SEE SHEET C2.11 FOR ENLARGED SITE PLAN NE SITE
SEE SHEET C2.12 FOR ENLARGED SITE PLAN SW SITE

SITE DATA TABLE

PROPERTY INFORMATION / SITE ADDRESSES -	PARCEL NO. - 005200000170000
	NC PIN - 8977-84-0404
	ADDRESS - SHORTCUT ROAD
	BARCO, CURRITUCK COUNTY, NORTH CAROLINA 27929
TOWNSHIP -	CRAWFORD
OWNER/DEVELOPER -	COUNTY OF CURRITUCK
	153 COURTHOUSE RD, CURRITUCK, NC 27929
SITE AREA -	EXISTING PARK TOTAL - 51.61 ACRES (PER CURRITUCK COUNTY GIS)
	SITE AREA WITHIN EX. PARK - 10.0 AC (+/- 435,600 SF)
LAND USE -	EXISTING - PARK, VACANT
ZONING -	GB
ZONING OVERLAY-	AP
PROPOSED USE -	BALL FIELDS, PARKING, ACCESSORY FACILITIES
PROPOSED AMENITIES -	PICNIC SHELTER (4)
	+/- 900 SF, 30' X 30'
	RESTROOM / CONCESSION BUILDING (1)
	+/- 1,680 SF
	250' BALL FIELDS (2)
	DUGOUTS (4)
	BLEACHERS (4)
	SCOREKEEPERS BOX (2)
	BOARDWALK 'A' (234 LF)
	BOARDWALK 'B' (219 LF)
PARKING -	REQUIRED - TO BE DETERMINED BY THE DEVELOPMENT SERVICES DIRECTOR OF CURRITUCK COUNTY, OR A DESIGNEE (PER UDO SECTION 5.1.3.E)
	PROPOSED - 134 PARKING SPACES
	MINIMUM DIMENSIONS - 10' X 18'
BICYCLE PARKING -	PROPOSED - 2 SPACES
WETLANDS -	AREA OF WETLANDS WITHIN PARK - +/- 273,329 SF (+/- 6.27 AC)
	AREA OF WETLANDS WITHIN SITE - +/- 109,511 SF (+/- 2.51 AC)
	AREA OF WETLANDS TO BE DISTURBED - +/- 3,885 SF (0.089 AC)

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NOT FOR RECORDATION
NOT FOR CONVEYANCE
NOT FOR REGULATORY APPROVAL
PRELIMINARY PLAT
NOT FOR RECORDATION
NOT FOR CONVEYANCE
NOT FOR REGULATORY APPROVAL
NOT FOR PERMITTING
NOT FOR BIDDING
NOT FOR CONSTRUCTION
Preliminary

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

SITE PLAN

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.01

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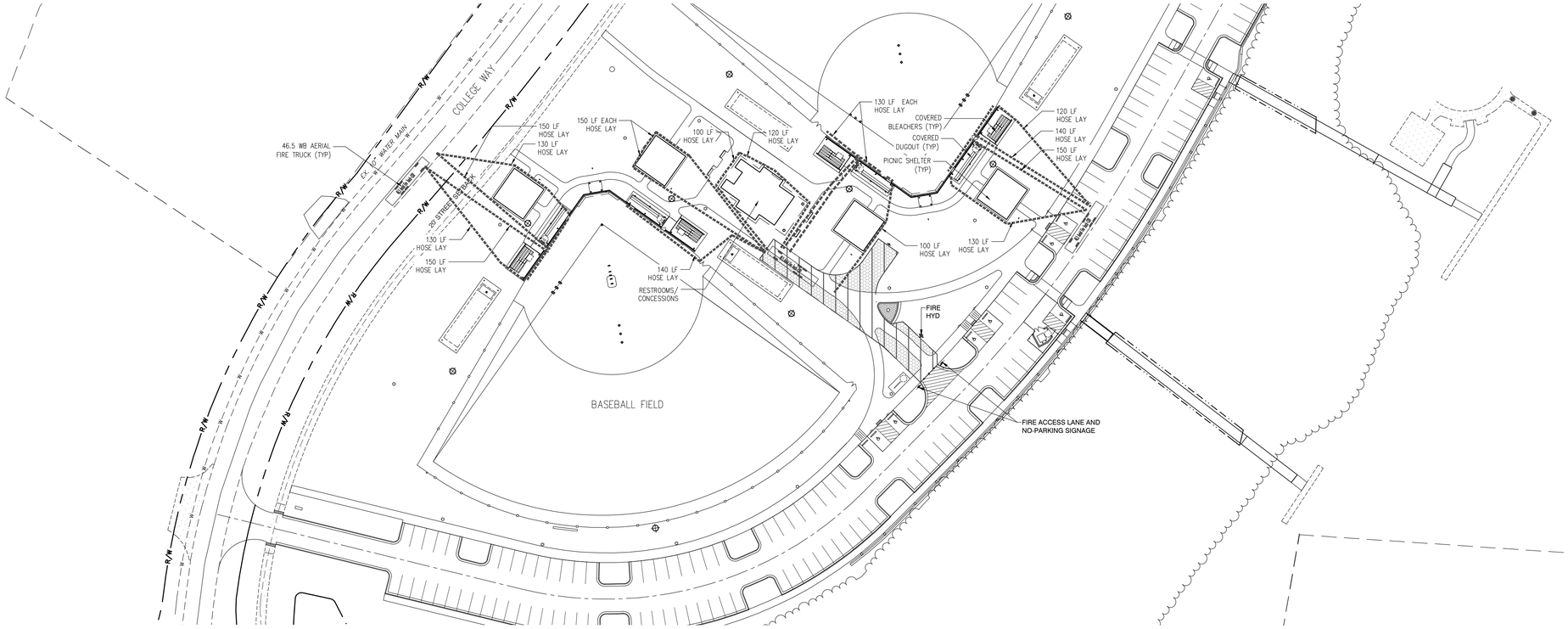
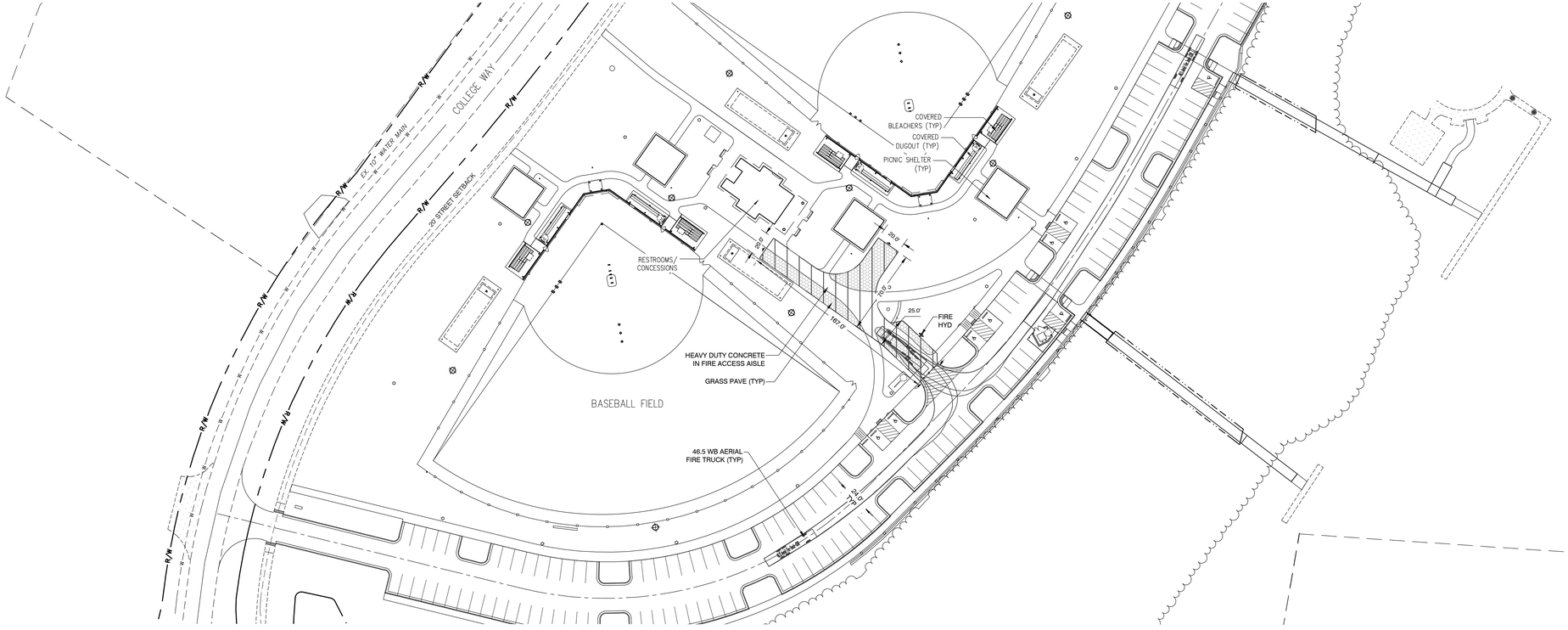


FIRE HOSE LAY DISTANCES

SCALE: 1:50

2



FIRE APPARATUS ACCESS PATH VEHICLE TRACKING

SCALE: 1:50

1

FIRE PROTECTION NOTES:

1. UNLESS NOTED, ALL RADII ON THIS PLAN ARE MEASURED AT FACE OF CURB.
2. MINIMUM INSIDE TURNING RADIUS OF 28' MUST BE MAINTAINED THROUGHOUT THE SITE FOR THE FIRE DEPARTMENT ACCESS LANE/PATH SHOWN ON THIS PLAN.
3. ALL FIRE APPARATUS ACCESS ROADS/STREETS SHALL BE HEAVY DUTY ASPHALT PAVING WITH MINIMUM 80,000 LB LOAD CAPACITY.
4. FIRE ACCESS TURNAROUND ROUTE SHALL BE HEAVY DUTY CONCRETE SIDEWALK AND GRASS PAVE WITH MINIMUM 80,000 LB LOAD CAPACITY.
5. ALL PORTIONS OF FIRST FLOOR OF ROOFED STRUCTURES SHALL BE MAXIMUM 150 LF HOSE LAY FROM FIRE TRUCK ACCESS PATHS.

FDC:

HOSE LAY:

46.5' WB AERIAL FIRE TRUCK:

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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

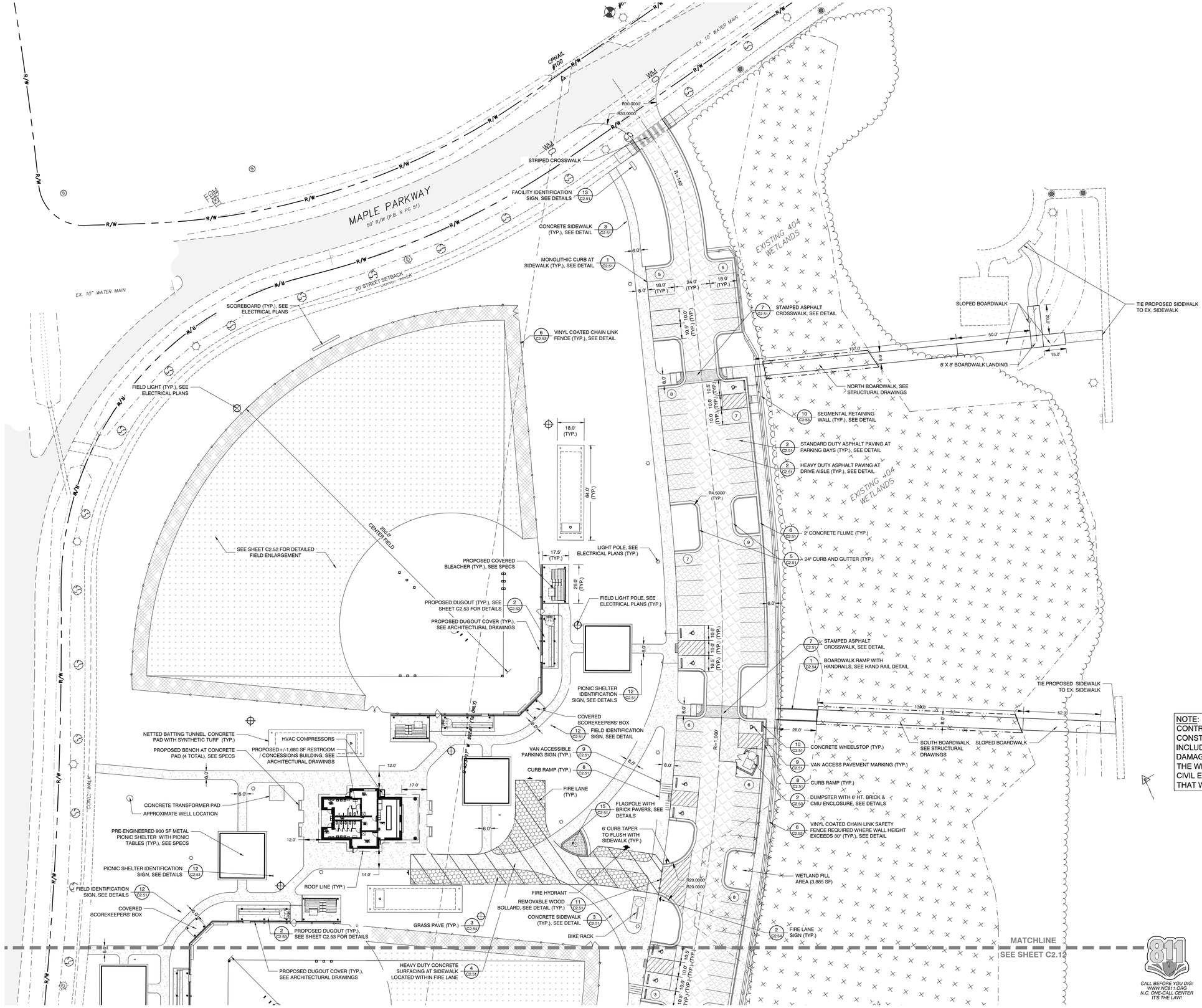
FIRE APPARATUS ACCESS PLAN

DESIGNED BY:	PRM/CK
DRAWN BY:	TAH
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN

SHEET No.

C2.02

Do Not Use for Construction - PRELIMINARY



N/F
CURRITUCK COUNTY
PIN: 8977-84-0404
PARCEL ID#: 005200000170000
D.B. 1062 PG. 356
BOOK K PG. 150
ZONING: GB, HI
58.20 AC +/- (TOTAL)
12.27 AC +/- (SURVEY AREA)

NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

SITE HATCH LEGEND
- CONCRETE
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- GRASS PAVE AT FIRE LANE
- FIRE LANE

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30' 0 15' 30'
SCALE 1 inch = 30 ft

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PRELIMINARY PLANS NOT FOR CONSTRUCTION OR RECORDATION
NC REGISTERED LANDSCAPE ARCHITECT
7757
SEAL

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA
ENLARGED SITE PLAN - NE

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN

SHEET No.
C2.11

Do Not Use for Construction - PRELIMINARY

PICNIC SHELTER IDENTIFICATION SIGN, SEE DETAILS (12 C2.51)

PROPOSED PRE-ENGINEERED METAL PICNIC SHELTER WITH PICNIC TABLES (TYP.), SEE SPECS

PROPOSED COVERED BLEACHER (TYP.), SEE SPECS

NETTED BATTING TUNNEL, CONCRETE PAD WITH SYNTHETIC TURF (TYP.)

SEE SHEET C2.52 FOR DETAILED FIELD ENLARGEMENT

DETECTABLE WARNING STRIP (TYP.)

VAN ACCESSIBLE PARKING SIGN (TYP.) (9 C2.51)

CONCRETE WHEELSTOP (TYP.) (3 C2.51)

LIGHT POLE, SEE ELECTRICAL PLANS (TYP.)

FIELD LIGHT POLE (TYP.), SEE ELECTRICAL PLANS

SCOREBOARD (TYP.), SEE ELECTRICAL PLANS

VINYL COATED CHAIN LINK FENCE (TYP.), SEE DETAIL (6 C2.53)

MONOLITHIC CURB AT SIDEWALK (TYP.), SEE DETAIL (1 C2.51)

CONCRETE SIDEWALK (TYP.), SEE DETAIL (3 C2.51)

24" CURB AND GUTTER (TYP.), SEE DETAIL (5 C2.51)

FACILITY IDENTIFICATION SIGN, SEE DETAILS (13 C2.51)

CURB RAMP (TYP.) (8 C2.51)

STRIPED CROSSWALK

VINYL COATED CHAIN LINK SAFETY FENCE REQUIRED WHERE WALL HEIGHT EXCEEDS 30" (TYP.), SEE DETAIL (6 C2.53)

SEGMENTAL RETAINING WALL (TYP.), SEE DETAIL (10 C2.53)

24" CURB AND GUTTER (TYP.) (5 C2.51)

STANDARD DUTY ASPHALT PAVING AT PARKING BAYS (TYP.), SEE DETAIL (2 C2.51)

HEAVY DUTY ASPHALT PAVING AT DRIVE AISLE (TYP.), SEE DETAIL (2 C2.51)

SEE SHEET C2.11
MATCHLINE

EXISTING 404 WETLANDS

WET POND, SEE STORMWATER SHEETS

N/F
CRAWFORD HOLDINGS, INC.
D.B. 1773 PG. 131
PIN: 8977-73-5737
PARCEL ID#: 005200000240000
ZONING: GB

N 86°33'04" W 556.42'

N 38°52'32" E 180.80'

S 22°16'49" W 183.84'

U.S. HWY. NO. 158
(100' PUBLIC R/W - BOOK K PG. 150)

COLLEGE WAY
60' R/W (P.B. N PG 51)

SITE HATCH LEGEND
- CONCRETE
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- GRASS PAVE AT FIRE LANE
- FIRE LANE

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SCALE 1 inch = 30 ft

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PRELIMINARY PLANS
NOT FOR CONSTRUCTION
7558
NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL

ISSUE/REVISIONS:

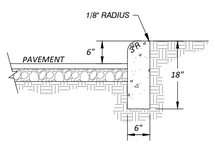
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

ENLARGED SITE PLAN - SW

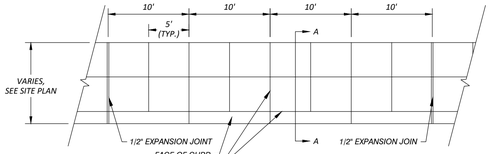
DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.12

Do Not Use for Construction - PRELIMINARY

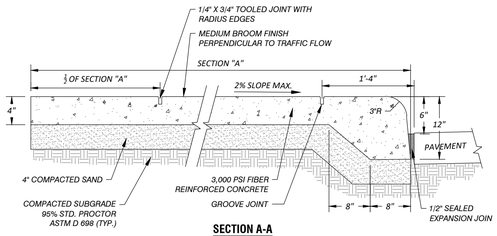


NOTES:
1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS, EXCEPT THAT A 15-FOOT SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT A 10-FOOT INTERVAL. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS AHLL BE SPACED AT 90 FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
4. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3,600 P.S.I IN 28 DATS.
5. TOP 6" OF SUBGRADE BENEATH THE CURB SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.

VERTICAL CURB DETAIL



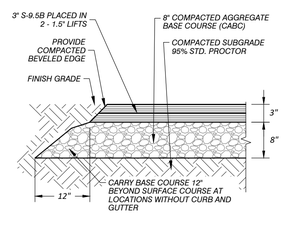
PLAN



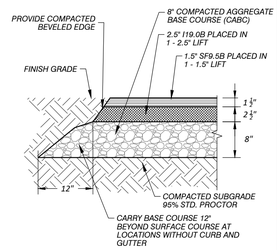
SECTION A-A

NOTES:
1) A GROOVE JOINT 1" DEEP WITH 1/3" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 40' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
2) ALL CONCRETE TO BE 3,000 PSI COMPRESSIVE STRENGTH.
3) SEE SITE PLAN FOR LOCATION.

1 VERTICAL AND MONOLITHIC SIDEWALK CURB
N.T.S.

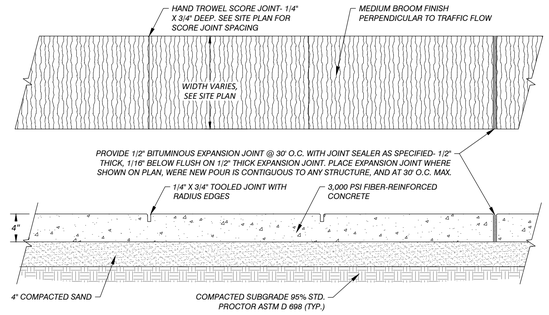


LIGHT DUTY ASPHALT PAVING SECTION

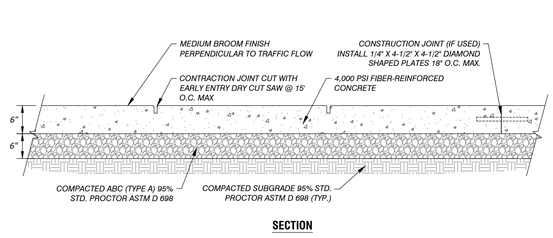


HEAVY DUTY ASPHALT PAVING SECTION

2 ASPHALT PAVEMENT
N.T.S.



3 CONCRETE SIDEWALK
N.T.S.

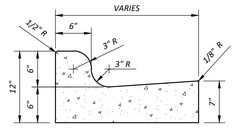


SECTION

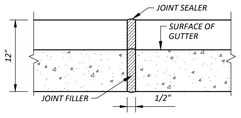
NOTES:
1. CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 330.
2. CONTRACTOR TO SUBMIT JOINTING PLAN TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OF PAVEMENT.

4 VEHICULAR CONCRETE
N.T.S.

NOTES:
1. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, EXCEPT THAT 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-½" SHALL BE OBTAINED.
3. ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT FILLER.
4. EXPANSION JOINTS SHALL BE SPACED AT 90' INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
5. ALL CURB AND GUTTERS ARE TO BE POURED WITH CLASS 'A' CONCRETE (3,000 PSI)
6. FLEXIBLE FORMS ARE TO BE USED WHEN RADII IS LESS THAN 2000'
7. MATCH WIDTH OF EXISTING CURB & GUTTER FOR ALL PATCHING.
8. REMOVE & REPLACE CURB & GUTTER TO NEAREST CONSTRUCTION JOINT.

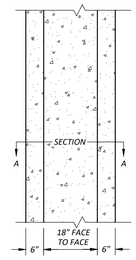


COMBINATION CURB AND GUTTER

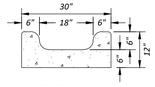


TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER

5 STANDARD CURB AND GUTTER
N.T.S.

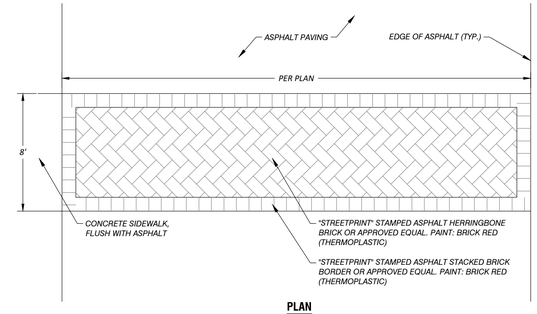


PLAN VIEW



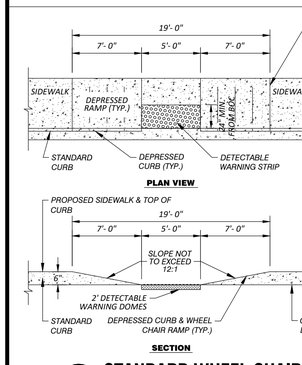
SECTION A-A

6 18 IN. CONCRETE FLUME
N.T.S.

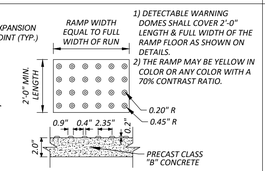


PLAN

7 STAMPED ASPHALT CROSSWALK
N.T.S.

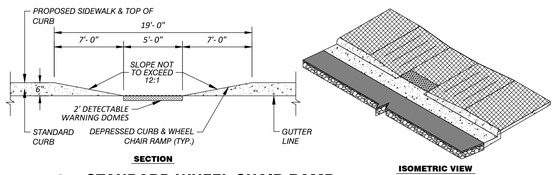


PLAN VIEW



DETECTABLE WARNING DOMES

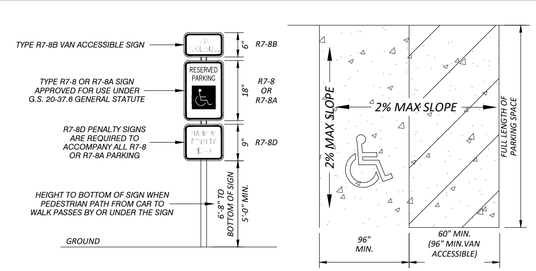
1) DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH & FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON DETAILS.
2) THE RAMP MAY BE YELLOW IN COLOR OR ANY COLOR WITH A 70% CONTRAST RATIO.



SECTION

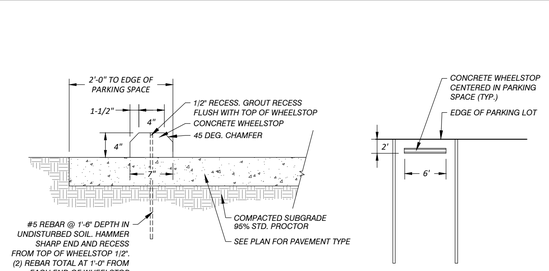
ISOMETRIC VIEW

8 STANDARD WHEEL CHAIR RAMP
N.T.S.



NOTES:
1. HANDICAPPED PARKING SPACE SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.
2. VAN ACCESSIBLE SPACES AND ACCESS AISLES SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 98".
3. MINIMUM DIMENSIONS OF ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL COMPLY WITH ANSI/ICC A117.1-2017.

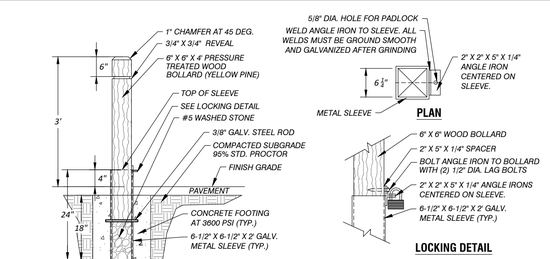
9 HANDICAPPED PARKING AND SIGNAGE
N.T.S.



SECTION

PLAN

10 CONCRETE WHEEL STOP
N.T.S.



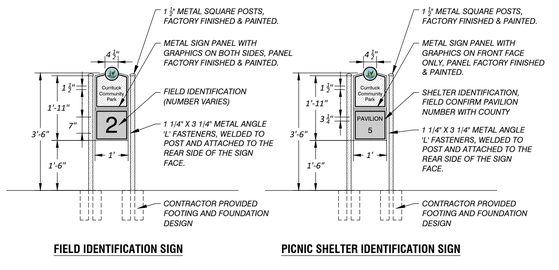
SECTION

PLAN

LOCKING DETAIL

NOTES:
1. ALL METAL COMPONENTS ARE TO BE FABRICATED, GROUND SMOOTH, AND HOT-DIPPED GALVANIZED.
2. ALL METAL COMPONENTS MUST HAVE A SMOOTH FINISHED, GALVANIZED SURFACE.
3. SPACER AND ANGLE IRON TO BE FLUSH, MOUNTED AT CENTER OF BOLLARD.
4. HOLES FOR PADLOCK MUST LINE UP WHEN BOLLARD IS INSERTED INTO SLEEVE.
5. ALL WOOD SHALL BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE @ NET RETENTION OF 0.40 LBS/CF. WOOD SHALL BE DRIED AFTER TREATMENT.

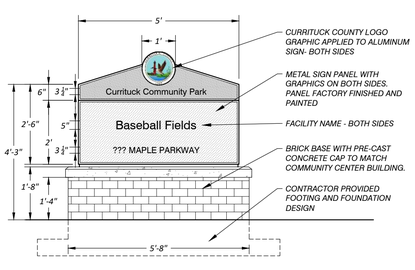
11 CONCRETE WHEEL STOP
N.T.S.



FIELD IDENTIFICATION SIGN

PICNIC SHELTER IDENTIFICATION SIGN

12 IDENTIFICATION SIGNS
N.T.S.



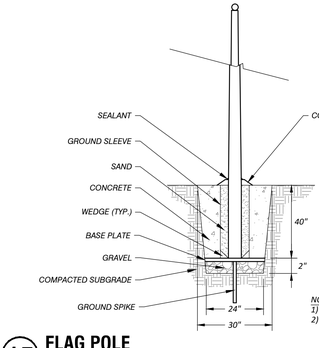
13 FACILITY IDENTIFICATION SIGN
N.T.S.

Currituck Community Park
Baseball and Softball Complex
Currituck County, North Carolina

Landscape Architect: Rivers & Associates, Inc.
Civil Engineer: Rivers & Associates, Inc.
Architect: Intrepid Architecture

General Contractor: Name Here

14 TEMPORARY CONSTRUCTION SIGN
N.T.S.



NOTES:
1) FLAG POLE HEIGHT SHALL BE 30'
2) SEE SPECIFICATIONS FOR OTHER REQUIREMENTS

15 FLAG POLE
N.T.S.

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NOT FOR REGULATORY APPROVAL
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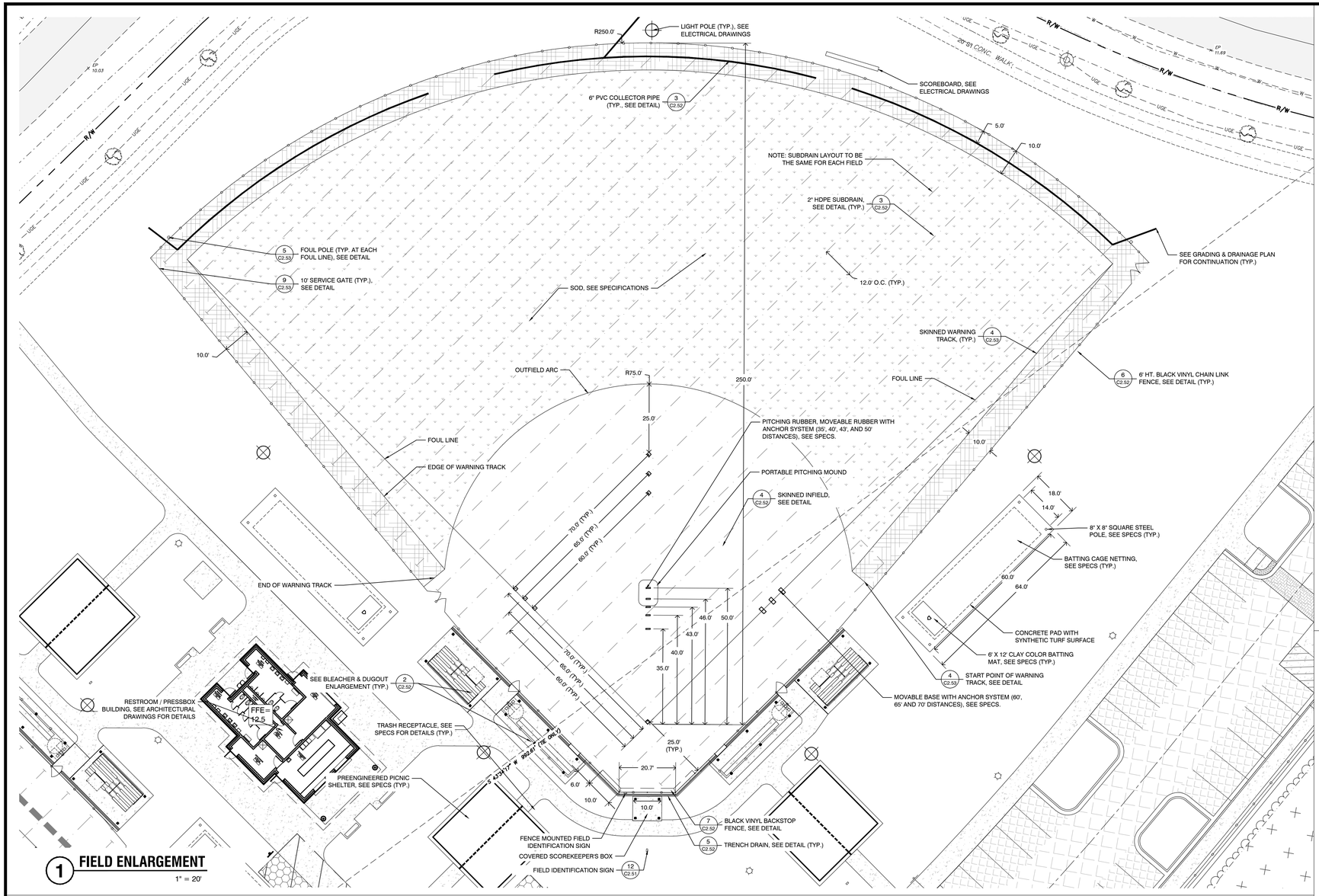
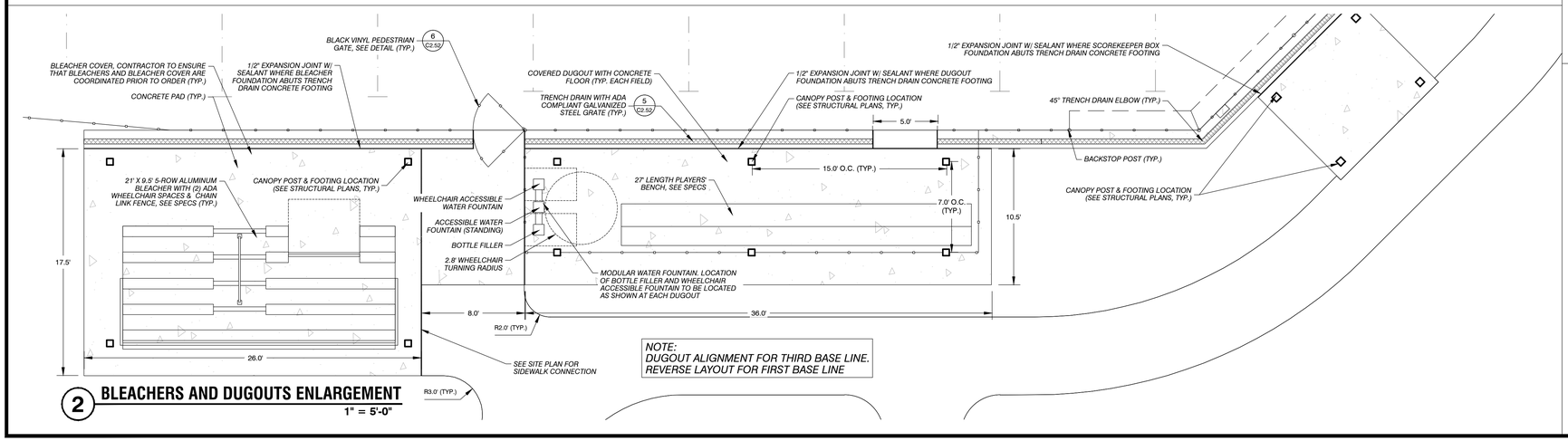
NOT FOR SALE



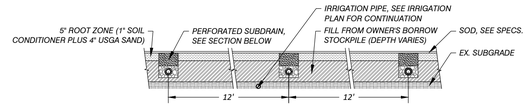
1 FIELD ENLARGEMENT

1" = 20'

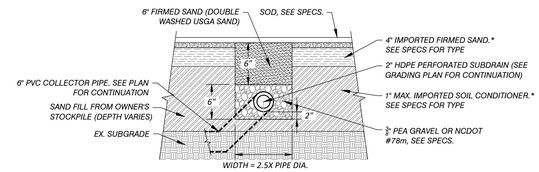


2 BLEACHERS AND DUGOUTS ENLARGEMENT

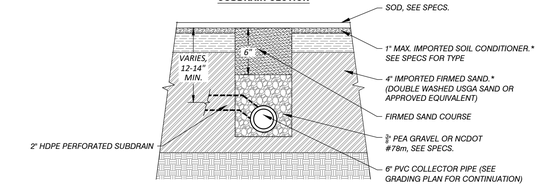
1" = 5'-0"



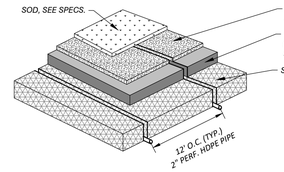
FIELD SECTION



SUBDRAIN SECTION



COLLECTOR PIPE SECTION

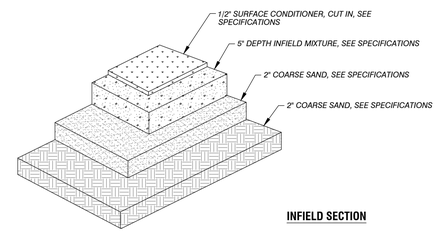


NOTES:
DETAIL ILLUSTRATES SAND AND SOIL CONDITIONER MATERIALS BEFORE MIXING PROCESS.

MATERIAL SHALL BE MIXED TO CREATE ROOT ZONE MIXTURE. SEE ATHLETIC FIELD TURF & GRASSES SPECIFICATIONS FOR MORE INFORMATION

3 FIELD SUBDRAIN DETAIL

N.T.S. N.T.S.



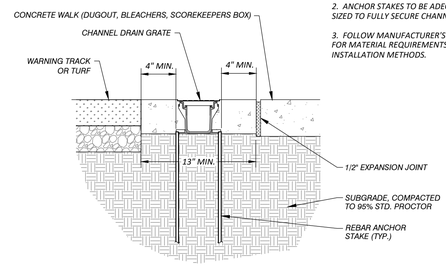
INFIELD SECTION

4 SKINNED INFIELD MIXTURE

N.T.S. N.T.S.

NOTE:

1. *THE GRATE SHOULD BE RECESSED BELOW GRADE A MINIMUM OF 1/8".*
2. *ANCHOR STAKES TO BE ADEQUATELY SIZED TO FULLY SECURE CHANNEL DRAIN.*
3. *FOLLOW MANUFACTURER'S GUIDELINES FOR MATERIAL REQUIREMENTS AND INSTALLATION METHODS.*



5 TRENCH DRAIN

N.T.S. N.T.S.
X-#

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NOT FOR REGULATORY APPROVAL
NOT FOR PURCHASE
NOT FOR LAND TRANSFER

ISSUE/REVISIONS:

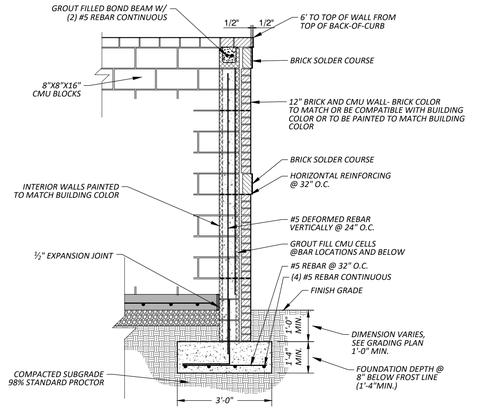
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

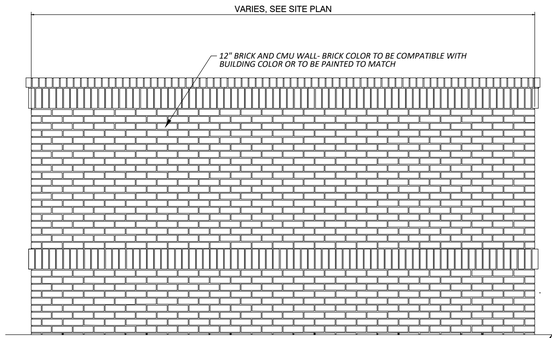
SITE DETAILS

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.52

Do Not Use for Construction - PRELIMINARY



SECTION



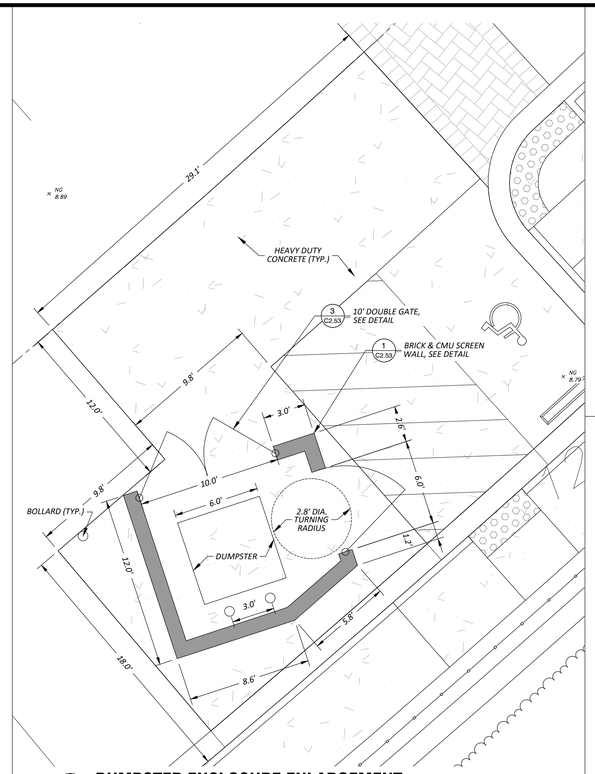
ELEVATION (SIDE)

NOTE: THIS TYPICAL WALL DETAIL IS FOR REFERENCE ONLY. THE PROFESSIONAL ENGINEER'S PE SEAL ON THESE PLANS DOES NOT INCLUDE ANY WALL DESIGN. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PREPARED AND SEALED BY LICENSED NC STRUCTURAL ENGINEER FOR APPROVAL.

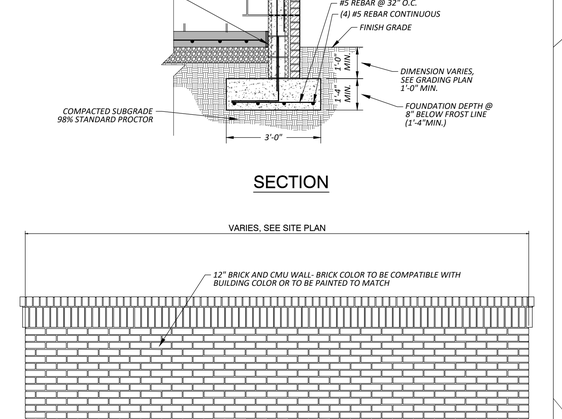
NOTES

REFER TO SITE PLAN FOR LAYOUT AND GRADING OF CONCRETE PAD. VERIFY ACTUAL DIMENSIONS IN FIELD BEFORE CONSTRUCTION.

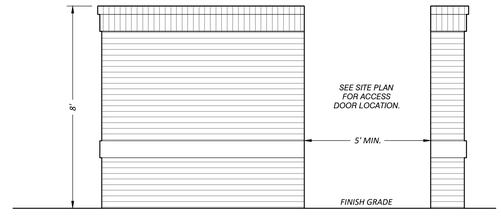
1 8 FT. HT. BRICK AND CMU SCREEN WALL
N.T.S.



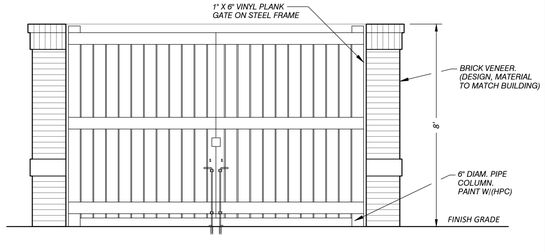
2 DUMPSTER ENCLOSURE ENLARGEMENT
1" = 5'-0"



GATE POST SECTION

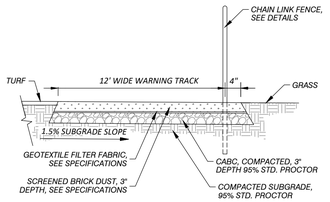


SIDE ELEVATION



FRONT ELEVATION

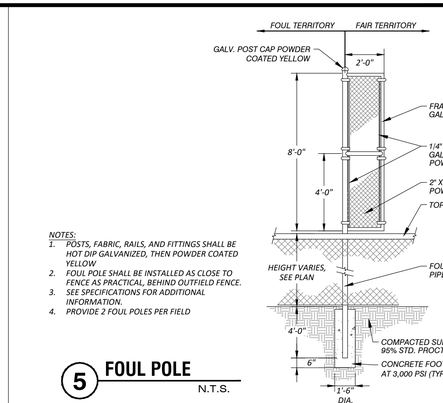
3 DUMPSTER GATE DETAILS
N.T.S.



SECTION

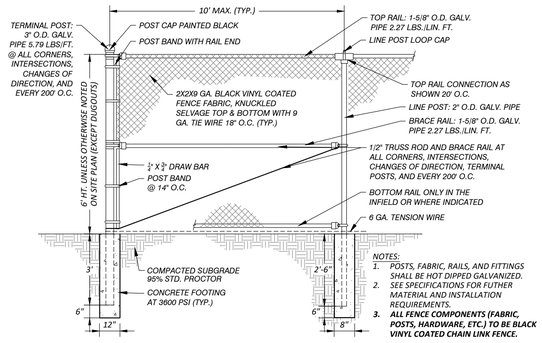
NOTES:
1. SEE SITE PLAN FOR LOCATION.
2. SEE GRADING PLAN FOR FINISHED GRADES.

4 BALLFIELD WARNING TRACK
N.T.S.



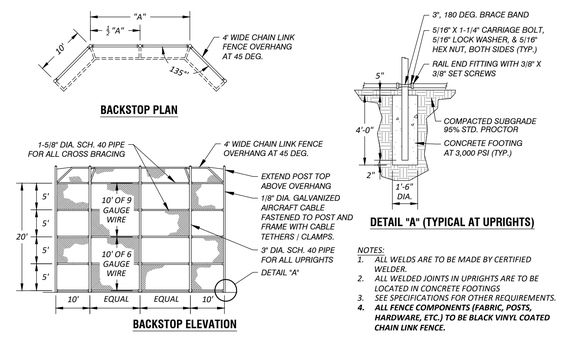
NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIP GALVANIZED, THEN POWDER COATED YELLOW
2. FOUL POLE SHALL BE INSTALLED AS CLOSE TO FENCE AS PRACTICAL, BEHIND OUTFIELD FENCE.
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. PROVIDE 2 FOUL POLES PER FIELD

5 FOUL POLE
N.T.S.



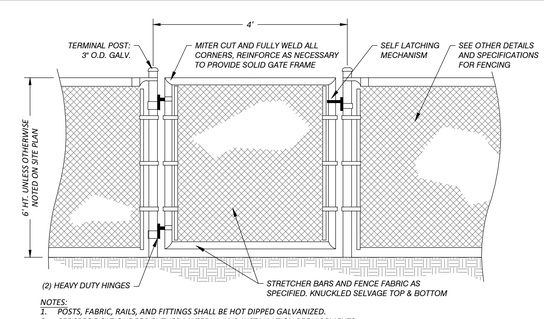
NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
2. SEE SPECIFICATIONS FOR FUTHER MATERIAL AND INSTALLATION REQUIREMENTS.
3. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

6 BLACK VINYL COATED CHAIN LINK FENCE SECTION
N.T.S.



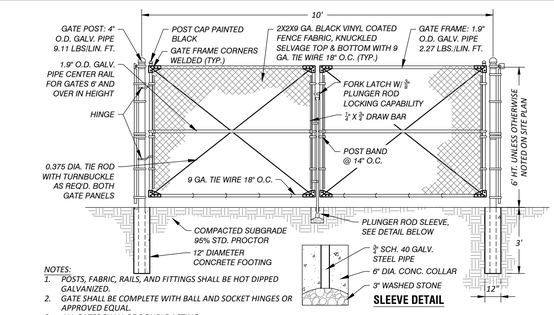
NOTES:
1. ALL WELDS ARE TO BE MADE BY CERTIFIED WELDER.
2. ALL WELDED JOINTS IN UPRIGHTS ARE TO BE LOCATED IN CONCRETE FOOTINGS
3. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.
4. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

7 BLACK VINYL COATED FENCE BACKSTOP
N.T.S.



NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
2. SEE SPECIFICATIONS FOR FUTHER MATERIAL AND INSTALLATION REQUIREMENTS.
3. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

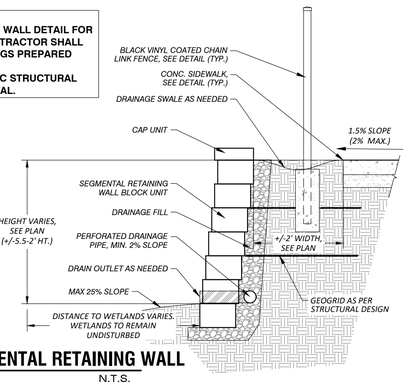
8 PEDESTRIAN GATE FOR CHAIN LINK FENCE
N.T.S.



NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
2. GATE SHALL BE COMPLETE WITH BALL AND SOCKET HINGES OR APPROVED EQUAL.
3. ALL GATES SHALL BE DOUBLE ACTING.
4. SEE SPECIFICATIONS FOR FURTHER MATERIAL AND INSTALLATION REQUIREMENTS.
5. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

9 VINYL COATED SERVICE GATE FOR CHAIN LINK FENCE
N.T.S.

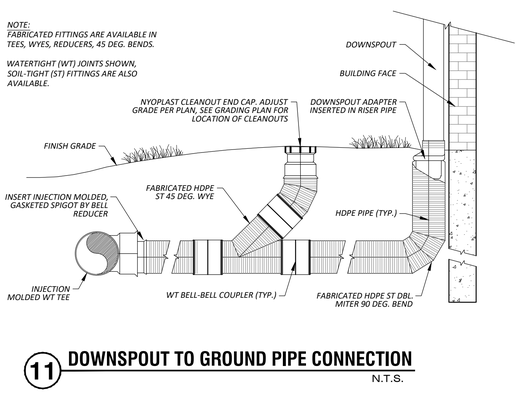
NOTE:
SEGMENTAL RETAINING WALL DETAIL FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PREPARED AND SEALED BY LICENSED NC STRUCTURAL ENGINEER FOR APPROVAL.



10 SEGMENTAL RETAINING WALL
N.T.S.

NOTE:
FABRICATED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45 DEG. BENDS.

WATERTIGHT (WT) JOINTS SHOWN, SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.



11 DOWNSPOUT TO GROUND PIPE CONNECTION
N.T.S.

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Engineers
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Landscape Architects

Preliminary
NOT FOR CONSTRUCTION
DO NOT USE FOR BIDDING, PERMITTING, OR CONSTRUCTION
7/1/25

ISSUE/REVISIONS:

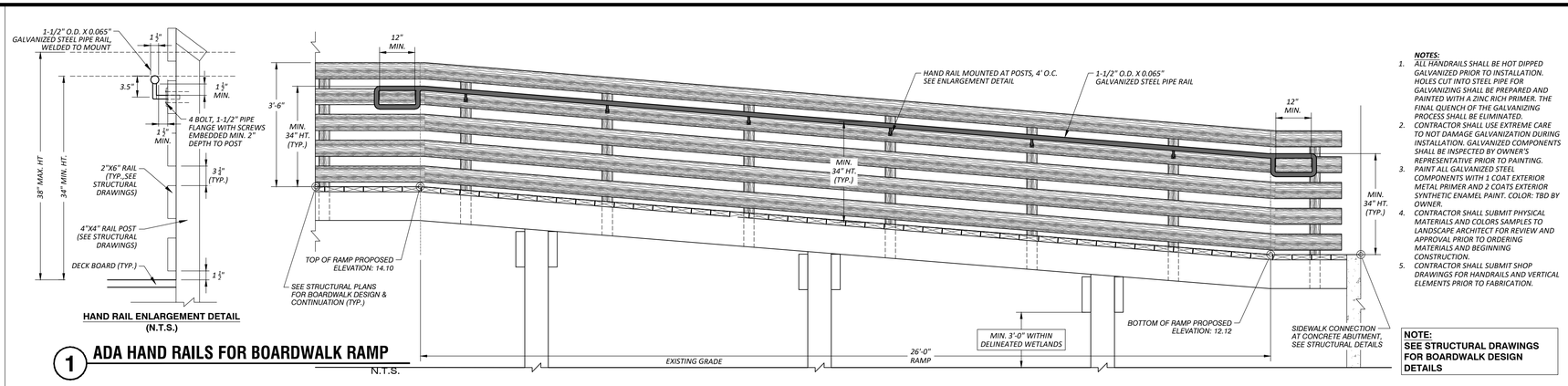
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

SITE DETAILS

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.53

Do Not Use for Construction - PRELIMINARY

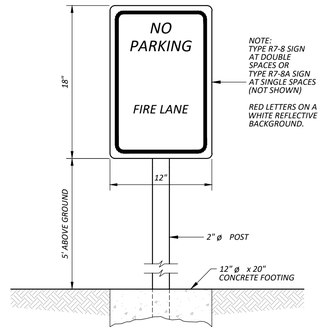


NOTES:

1. ALL HANDRAILS SHALL BE HOT DIPPED GALVANIZED PRIOR TO INSTALLATION. HOLES CUT INTO STEEL PIPE FOR GALVANIZING SHALL BE PREPARED AND PAINTED WITH A ZINC RICH PRIMER. THE FINAL QUENCH OF THE GALVANIZING PROCESS SHALL BE ELIMINATED.
2. CONTRACTOR SHALL USE EXTREME CARE TO NOT DAMAGE GALVANIZATION DURING INSTALLATION. GALVANIZED COMPONENTS SHALL BE INSPECTED BY OWNER'S REPRESENTATIVE PRIOR TO PAINTING.
3. PAINT ALL GALVANIZED STEEL COMPONENTS WITH 1 COAT EXTERIOR METAL PRIMER AND 2 COATS EXTERIOR SYNTHETIC ENAMEL PAINT. COLOR: TBD BY OWNER.
4. CONTRACTOR SHALL SUBMIT PHYSICAL MATERIALS AND COLORS SAMPLES TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR HANDRAILS AND VERTICAL ELEMENTS PRIOR TO FABRICATION.

NOTE:
SEE STRUCTURAL DRAWINGS FOR BOARDWALK DESIGN DETAILS

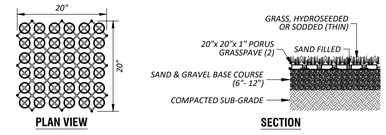
1 ADA HAND RAILS FOR BOARDWALK RAMP
N.T.S.



NOTE:
TYPE R7-8 SIGN AT DOUBLE SPACES OR TYPE R7-8A SIGN AT SINGLE SPACES (NOT SHOWN)

RED LETTERS ON A WHITE REFLECTIVE BACKGROUND.

2 FIRE LANE SIGN
N.T.S.



3 FIRE LANE GRASS PAVE
N.T.S.

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NOT FOR BIDDING
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NOT FOR PERMITTING
NOT FOR REGULATORY APPROVAL
NOT FOR PURCHASING
NOT FOR LAND TRANSFER
NOT FOR RECORDATION
NOT FOR SALES
NOT FOR RECORDATION
NOT FOR RECORDATION
NOT FOR RECORDATION

INV. 5.89' (W)
INV. 5.51' (E-OUT)

EX. 6" PVC

EX. 8" PVC

EX. MHSS #3
RIM: 10.94
INV. 4.50' (NW)
INV. 4.40' (E-OUT)

INV. IN=4.60 (S-IN)

EX. 6" PVC

SS MH #100
TOP=11.00
INV=5.29

SS MH #101
TOP=11.00
INV=6.00

BORE & JACK SANITARY SEWER PIPE INSTALLATION ACROSS THE ROAD. USE 16" STEEL CASING PIPE, EXTEND TO A MINIMUM OF 10' FROM EXISTING WATER LINE ON THE SOUTH SIDE

EX. 10" WATER MAIN

FIRM

MAPLE PARKWAY
50' R/W (D.B. N PG 51)

CPNAIL
#6100

TBM
#6091

100 LF 8" PVC SS @ 0.40% SLOPE

148 LF 8" PVC SS @ 0.42% SLOPE

20' STREET SETBACK

EX. 10" WATER MAIN

WM

TAP &10X6 TEE

6" GATE VALVE

22.5° BEND

N/F
CURRITUCK COUNTY
D.B. 1062 PG. 356
BOOK M PG. 97
PIN: 8977-74-3776
PARCEL ID#: 005200000250000
ZONING: HI

SS MH #102
TOP=11.20
INV=6.80

144 LF 8" PVC SS @ 0.40% SLOPE

SS MH #103
TOP=12.05 (+/-, FLUSH WITH WALKWAY)
INV.=7.22'

56 LF 4" PVC @ 2% SLOPE

160 LF 8" DIP SS @ 0.40% SLOPE

EXISTING 404 WETLANDS

6" C900 PVC WATERLINE

1-1/2" PVC WATERLINE (TYP.)

WATER FOUNTAIN

3/4" PVC WATERLINE

SS CLEANOUT

3/4" BALL VALVE IN METER VAULT (TYP.)

WATER FOUNTAIN

3/4" BALL VALVE IN METER VAULT (TYP.)

COLLEGE WAY
60' R/W (D.B. N PG 51)

20' STREET SETBACK

EX. 6" WATER MAIN

CONC. WALK

TBM
#6090

1-1/2" RPZ IN HOT BOX (SEE DETAIL)

1-1/2" TYPE -K DOMESTIC WATER SERVICE METER (BY CURRITUCK CO. PUBLIC UTILITY DEPT.)

1-1/2" TAP

FIRE HYDRANT ASSEMBLY

N/F
CURRITUCK COUNTY
PIN: 8977-84-0404
PARCEL ID#: 005200000170000
D.B. 1062 PG. 356
BOOK K PG. 150
ZONING: GB, HI
58.20 AC +/- (TOTAL)
12.27 AC +/- (SURVEY AREA)

EXISTING 404 WETLANDS

N/F
CURRITUCK COUNTY
D.B. 1062 PG. 356
PIN: 8977-83-1862
PARCEL ID#: 005200000180000
ZONING: GB

N/F
CURRITUCK COUNTY
D.B. 1170 PG. 359
PIN: 8977-83-0745
PARCEL ID#: 005200000190C
ZONING: GB

EIR

N 86°33'04" W 556.42'

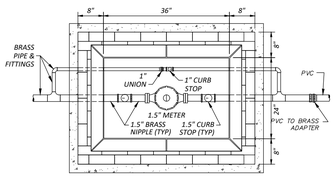
S 3°25'16" W 180.84'

N 3°26'32" E 180.86'

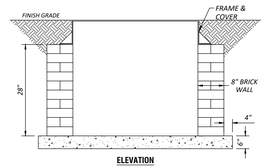
N/F
CRAWFORD HOLDINGS, INC.
D.B. 1773 PG. 131
PIN: 8977-73-5737
PARCEL ID#: 005200000240000
ZONING: GB

EX. BRICK 20' STREET SETBACK SIGN

U.S. HWY. NO. 158
(100' PUBLIC R/W - BOOK K PG. 150)

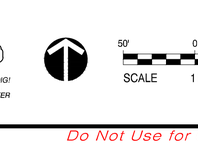


PLAN

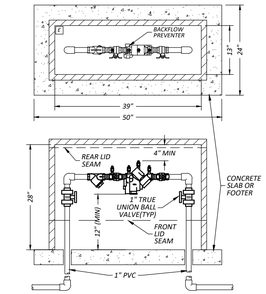


ELEVATION

1 1.5" METER & VAULT
N.T.S.



NOTES :
1) ALL DIMENSIONS ARE APPROXIMATED IN INCHES.
2) RECOMMENDED SLAB SIZE SHALL BE 50"L x 24"W x 4" MINIMUM THICKNESS.
3) "E" INDICATES THE ELECTRICAL RECEPTACLE. IT SHALL BE MOUNTED A MINIMUM OF 18" ABOVE THE SLAB.
4) HEAT IS PROVIDED BY A 90W, 120V, SINGLE PHASE HEAT TRACE CABLE (18'-0" LENGTH).
5) USE SIMILAR ENCLOSURE FOR IRRIGATION BOOSTER PUMP.



2 RPZ & ENCLOSURE
N.T.S.
WATR-27

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N.C. ONE-CALL CENTER
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SCALE 1 inch = 50 ft

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NORTH CAROLINA PROFESSIONAL SEAL 032101 ENGINEER BRIAN RIVERS
Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

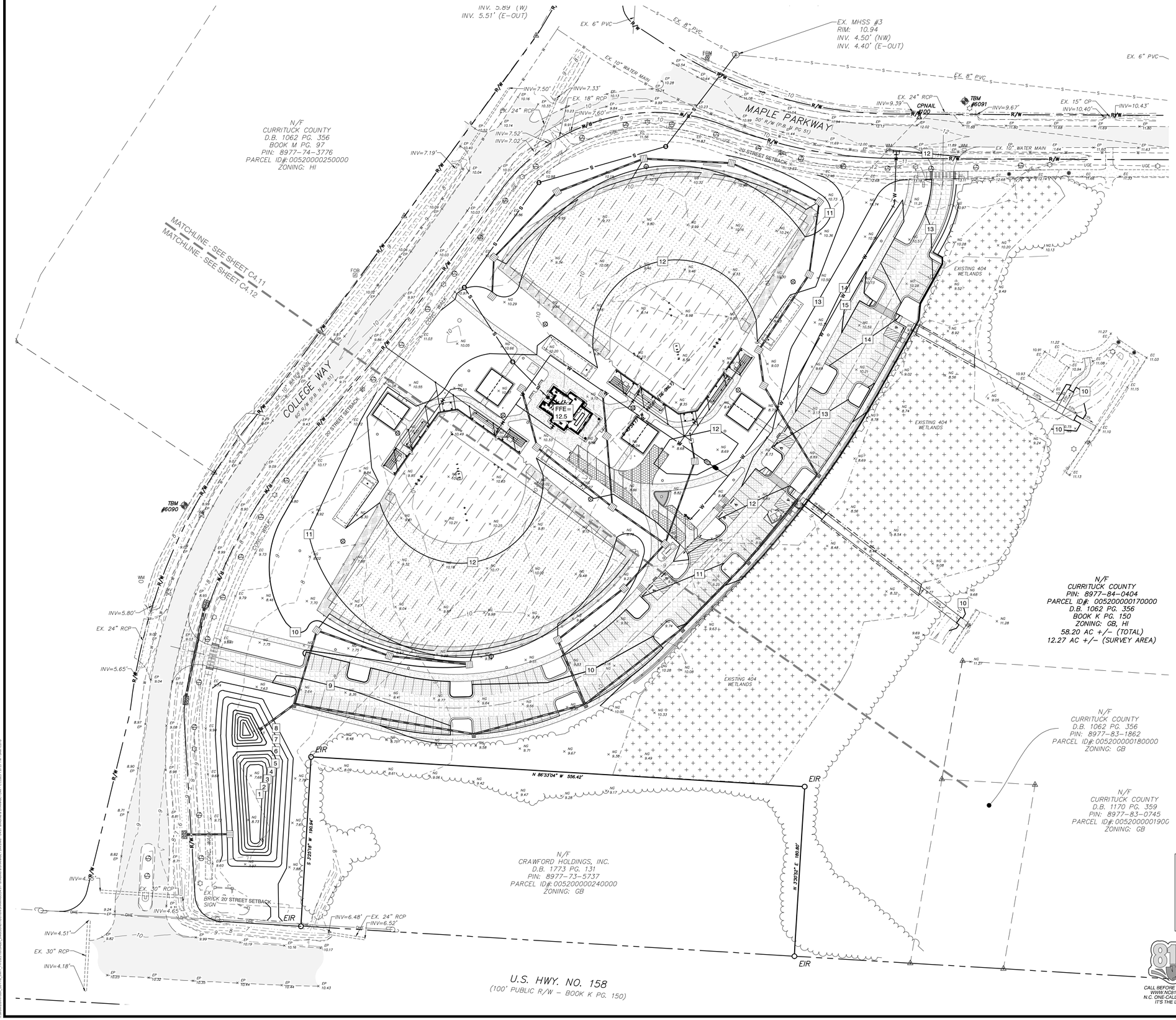
CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

UTILITIES PLAN

DESIGNED BY:	BR
DRAWN BY:	TAH, SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C3.01

Do Not Use for Construction - PRELIMINARY

S:\RIVERS\PROJECTS\2022109\CAD\PLANS\UTILITIES\2022109_UTILITIES.DWG 7/1/2025 3:58:38 PM JOHN DOE



NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

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SCALE 1 inch = 50 ft (50' 0 25' 50')

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NORTH CAROLINA PROFESSIONAL SEAL 032191 ENGINEER BRIAN RIVERS

Preliminary
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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

GRADING & DRAINAGE PLAN

DESIGNED BY:	BR, SBF
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.01

Do Not Use for Construction - PRELIMINARY

NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

STRUCTURE TABLE	
NAME	DETAILS
CB-301	RIM= 8.90' INV= 5.13' (E) INV= 5.13' (N) INV= 5.13' (SW-OUT)
CB-302	RIM= 9.38' INV= 5.74' (E) INV= 5.74' (W-OUT)
CB-303	RIM= 9.82' INV= 6.13' (NE) INV= 6.13' (NW) INV= 6.13' (W-OUT)
CB-304	RIM= 10.40' INV= 6.54' (NE) INV= 6.54' (SW-OUT)
CB-305	RIM= 11.29' INV= 6.86' (NE) INV= 6.86' (SW-OUT)
CB-306	RIM= 12.35' INV= 7.25' (NW) INV= 7.24' (SW-OUT)
DI-2	RIM= 9.00' INV= 5.41' (E) INV= 5.41' (S-OUT)
DI-3	RIM= 9.25' INV= 5.72' (E) INV= 5.71' (W-OUT)
DI-4	RIM= 10.00' INV= 5.99' (W-OUT)
DI-5	RIM= 10.00' INV= 6.37' (NE) INV= 6.37' (SE-OUT)
DI-6	RIM= 10.25' INV= 6.65' (NE) INV= 6.65' (SW-OUT)
DI-7	RIM= 10.62' INV= 7.44' (N) INV= 6.85' (NW) INV= 6.85' (SW-OUT)
DI-8	RIM= 11.06' INV= 7.74' (N) INV= 7.74' (S-OUT)
DI-10	RIM= 10.47' INV= 7.07' (N) INV= 7.07' (NW) INV= 7.07' (SE-OUT)
DI-11	RIM= 12.25' INV= 7.31' (N) INV= 7.31' (S-OUT)
DI-12	RIM= 12.25' INV= 7.45' (S-OUT)
DI-13	RIM= 11.78' INV= 7.38' (N) INV= 7.38' (SE-OUT)
DI-14	RIM= 12.05' INV= 7.57' (S-OUT)
DI-16	RIM= 11.10' INV= 9.63' (N-OUT)
DI-17	RIM= 10.78' INV= 9.51' (S) INV= 9.51' (NE-OUT)

STRUCTURE TABLE	
NAME	DETAILS
DI-18	RIM= 10.63' INV= 9.21' (SW) INV= 9.21' (E-OUT)
DI-19	RIM= 10.50' INV= 8.91' (W) INV= 8.91' (E-OUT)
DI-20	RIM= 12.30' INV= 7.60' (N) INV= 7.60' (SE-OUT)
DI-21	RIM= 12.20' INV= 7.76' (NE) INV= 7.72' (S-OUT)
DI-22	RIM= 11.85' INV= 8.07' (N) INV= 8.07' (SW-OUT)
DI-23	RIM= 10.50' INV= 8.31' (NW) INV= 8.31' (S-OUT)
DI-24	RIM= 10.70' INV= 8.63' (W) INV= 8.62' (SE-OUT)
FES-1	RIM= 7.79' INV= 6.00' (S-OUT)
FES-2	RIM= 7.77' INV= 5.98' (N)
FES-100	RIM= 7.24' INV= 5.10' (E)
FES-200	RIM= 6.62' INV= 5.00' (NE)
JB-9	RIM= 9.43' INV= 7.90' (S-OUT)
OCS	RIM= 7.76' INV= 5.20' (W-OUT)

PIPE TABLE				
PIPE NAME	SIZE	MATERIAL	LENGTH	SLOPE
P-01-200	18"	RCP	42.41'	0.30%
P-2-01	12"	RCP	86.55'	0.32%
P-3-2	12"	RCP	86.37'	0.35%
P-4-3	12"	RCP	90.25'	0.30%
P-5-03	15"	RCP	78.90'	0.30%
P-6-5	15"	RCP	94.31'	0.30%
P-7-6	15"	RCP	67.97'	0.30%
P-8-7	12"	RCP	98.91'	0.30%
P-9-8	12"	RCP	23.30'	0.70%
P-10-7	15"	RCP	72.34'	0.30%
P-11-10	12"	RCP	80.22'	0.30%
P-12-11	12"	RCP	47.53'	0.30%
P-13-10	15"	RCP	104.59'	0.30%
P-14-13	12"	RCP	62.91'	0.30%
P-17-16	12"	RCP	38.80'	0.30%
P-18-17	12"	RCP	98.49'	0.30%
P-19-18	12"	RCP	100.86'	0.30%
P-20-06	12"	RCP	116.88'	0.30%
P-21-20	12"	RCP	40.37'	0.30%
P-22-21	12"	RCP	102.36'	0.30%

PIPE TABLE				
PIPE NAME	SIZE	MATERIAL	LENGTH	SLOPE
P-23-22	12"	RCP	82.46'	0.30%
P-24-23	12"	RCP	103.68'	0.30%
P-57	18"	RCP	90.00'	0.02%
P-58	12"	RCP	95.32'	0.30%
P-302-301	18"	RCP	204.25'	0.30%
P-303-302	18"	RCP	129.54'	0.30%
P-304-303	15"	RCP	137.58'	0.30%
P-305-304	15"	RCP	106.06'	0.30%
P-306-305	15"	RCP	125.64'	0.30%
P-OCS-100	15"	RCP	42.11'	0.24%

SPOT ELEVATION KEY

BACK OF CURB SPOT ELEVATION	13.55 BC
TOP OF CONCRETE SPOT ELEVATION	12.45 TC
TOP OF ASPHALT SPOT ELEVATION	11.30 TA
BOTTOM OF RAMP SPOT ELEVATION	11.56 BR
TOP OF RAMP SPOT ELEVATION	13.50 TR
FINISH GRADE SPOT ELEVATION	12.24 FG
TOP OF BOARDWALK SPOT ELEVATION	14.00 TBW
TOP OF BANK SPOT ELEVATION	11.09 TB
HIGH POINT SPOT ELEVATION	10.50 HP

MATCHLINE
SEE SHEET C4.12

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SCALE 1 inch = 30 ft (30' 0 15' 30')

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Preliminary
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL SEAL 032109 ENGINEER JOSEPH B. RIVERS

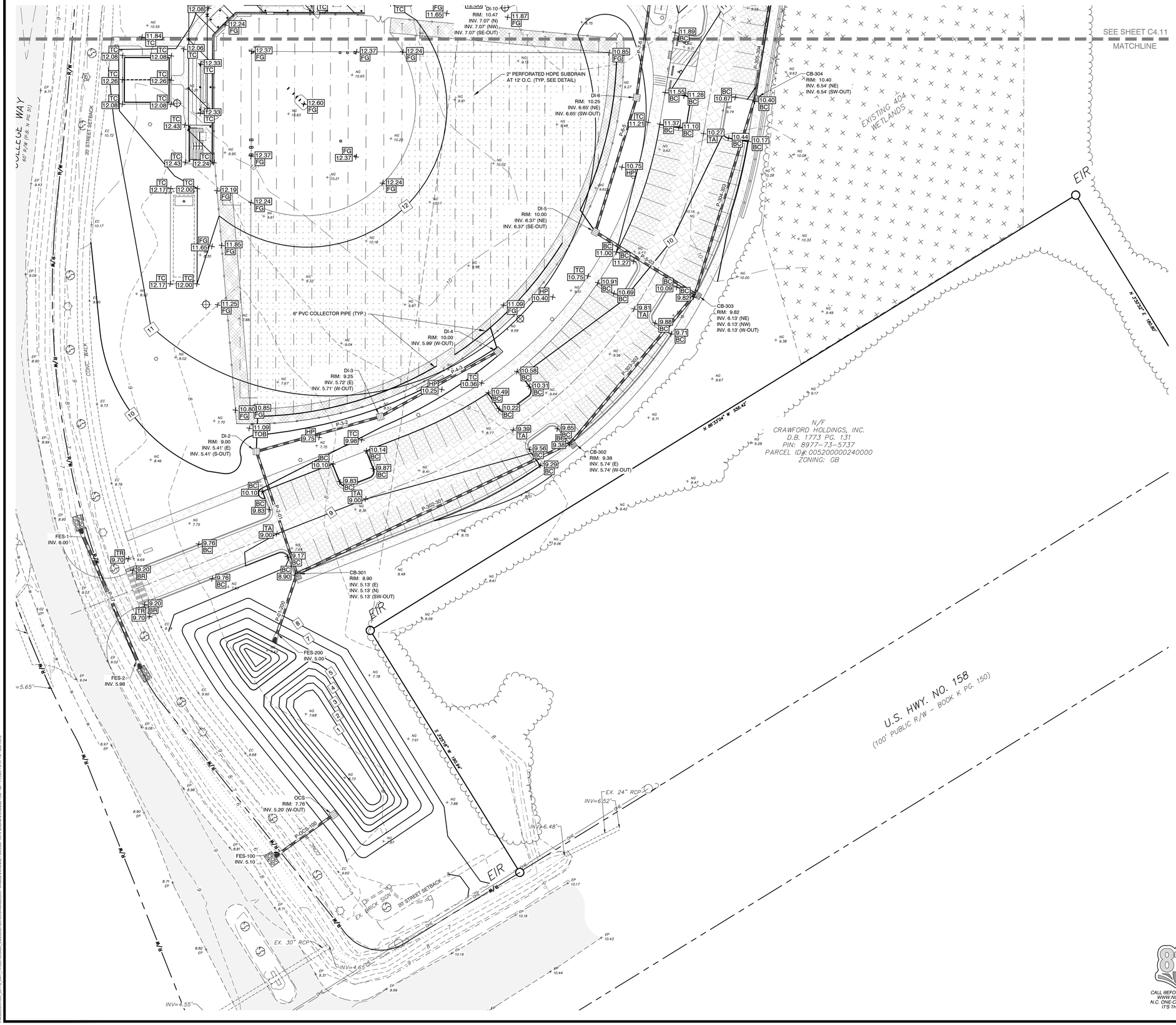
ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA
GRADING & DRAINAGE PLAN - NE

DESIGNED BY:	BR, SBF
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.11

Do Not Use for Construction - PRELIMINARY



STRUCTURE TABLE	
NAME	DETAILS
CB-301	RIM= 8.90' INV= 5.13' (E) INV= 5.13' (N) INV= 5.13' (SW-OUT)
CB-302	RIM= 9.38' INV= 5.74' (E) INV= 5.74' (W-OUT)
CB-303	RIM= 9.82' INV= 6.13' (NE) INV= 6.13' (NW) INV= 6.13' (W-OUT)
CB-304	RIM= 10.40' INV= 6.54' (NE) INV= 6.54' (SW-OUT)
CB-305	RIM= 11.29' INV= 6.86' (NE) INV= 6.86' (SW-OUT)
CB-306	RIM= 12.35' INV= 7.25' (NW) INV= 7.24' (SW-OUT)
DI-2	RIM= 9.00' INV= 5.41' (E) INV= 5.41' (S-OUT)
DI-3	RIM= 9.25' INV= 5.72' (E) INV= 5.71' (W-OUT)
DI-4	RIM= 10.00' INV= 5.99' (W-OUT)
DI-5	RIM= 10.00' INV= 6.37' (NE) INV= 6.37' (SE-OUT)
DI-6	RIM= 10.25' INV= 6.65' (NE) INV= 6.65' (SW-OUT)
DI-7	RIM= 10.62' INV= 7.44' (N) INV= 6.85' (NW) INV= 6.85' (SW-OUT)
DI-8	RIM= 11.06' INV= 7.74' (N) INV= 7.74' (S-OUT)
DI-10	RIM= 10.47' INV= 7.07' (N) INV= 7.07' (NW) INV= 7.07' (SE-OUT)
DI-11	RIM= 12.25' INV= 7.31' (N) INV= 7.31' (S-OUT)
DI-12	RIM= 12.25' INV= 7.45' (S-OUT)
DI-13	RIM= 11.78' INV= 7.38' (N) INV= 7.38' (SE-OUT)
DI-14	RIM= 12.05' INV= 7.57' (S-OUT)
DI-16	RIM= 11.10' INV= 9.63' (N-OUT)
DI-17	RIM= 10.78' INV= 9.51' (S) INV= 9.51' (NE-OUT)

STRUCTURE TABLE	
NAME	DETAILS
DI-18	RIM= 10.63' INV= 9.21' (SW) INV= 9.21' (E-OUT)
DI-19	RIM= 10.50' INV= 8.91' (W) INV= 8.91' (E-OUT)
DI-20	RIM= 13.30' INV= 7.60' (N) INV= 7.60' (SE-OUT)
DI-21	RIM= 12.20' INV= 7.76' (NE) INV= 7.72' (S-OUT)
DI-22	RIM= 11.85' INV= 8.07' (N) INV= 8.07' (SW-OUT)
DI-23	RIM= 10.50' INV= 8.31' (NW) INV= 8.31' (S-OUT)
DI-24	RIM= 10.70' INV= 8.63' (W) INV= 8.62' (SE-OUT)
FES-1	RIM= 7.79' INV= 6.00' (S-OUT)
FES-2	RIM= 7.77' INV= 5.98' (N)
FES-100	RIM= 7.24' INV= 5.10' (E)
FES-200	RIM= 6.62' INV= 5.00' (NE)
JB-9	RIM= 9.43' INV= 7.90' (S-OUT)
OCS	RIM= 7.76' INV= 5.20' (W-OUT)

PIPE TABLE				
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P-6-5	15"	RCP	94.31'	0.30%
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P-9-8	12"	RCP	23.30'	0.70%
P-10-7	15"	RCP	72.34'	0.30%
P-11-10	12"	RCP	80.22'	0.30%
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P-13-10	15"	RCP	104.59'	0.30%
P-14-13	12"	RCP	62.91'	0.30%
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P-303-302	18"	RCP	129.54'	0.30%
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P-305-304	15"	RCP	106.06'	0.30%
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SPOT ELEVATION KEY

BACK OF CURB SPOT ELEVATION	X 13.55 BC
TOP OF CONCRETE SPOT ELEVATION	X 12.45 TC
TOP OF ASPHALT SPOT ELEVATION	X 11.30 TA
BOTTOM OF RAMP SPOT ELEVATION	X 11.56 BR
TOP OF RAMP SPOT ELEVATION	X 13.50 TR
FINISH GRADE SPOT ELEVATION	X 12.24 FG
TOP OF BOARDWALK SPOT ELEVATION	X 14.00 TBW
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HIGH POINT SPOT ELEVATION	X 10.50 HP

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NORTH CAROLINA PROFESSIONAL SEAL 032161 ENGINEER BRIAN RIVERS

Preliminary
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ISSUE/REVISIONS:

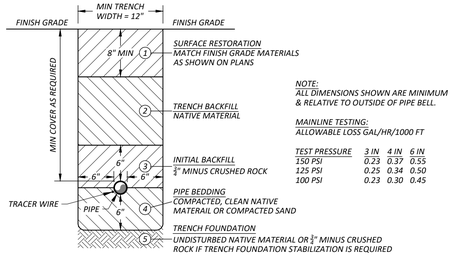
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

GRADING & DRAINAGE PLAN - SW

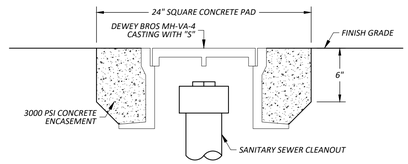
DESIGNED BY:	BR, SBF
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.12

Do Not Use for Construction - PRELIMINARY



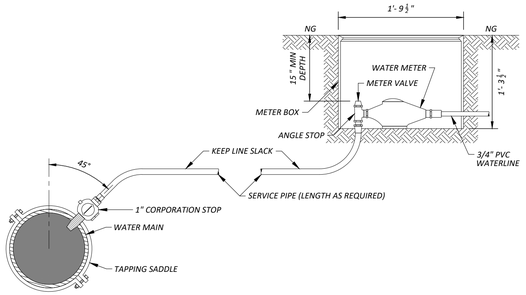
1 TYPICAL SEWER TRENCH

N.T.S.
SSWR-24



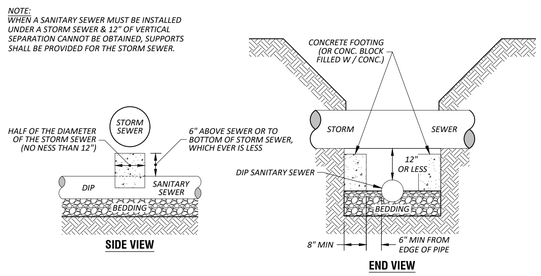
2 SANITARY SEWER CLEANOUT

N.T.S.
SSWR-18



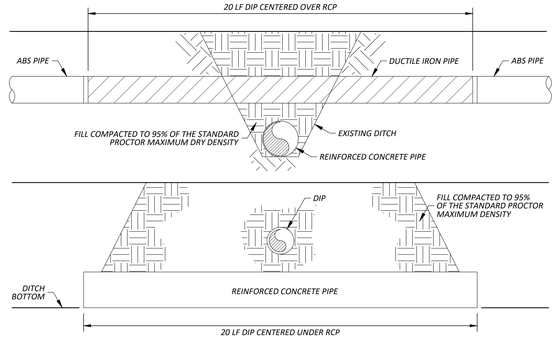
3 TYPICAL 3/4 " WATER SERVICE CONNECTION

N.T.S.
WATR-12



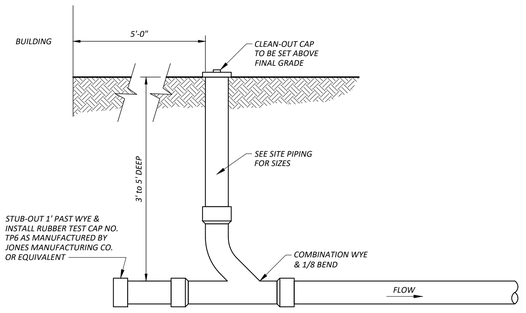
4 SEWER CROSSING UNDER STORM SEWER

N.T.S.
MISC-26



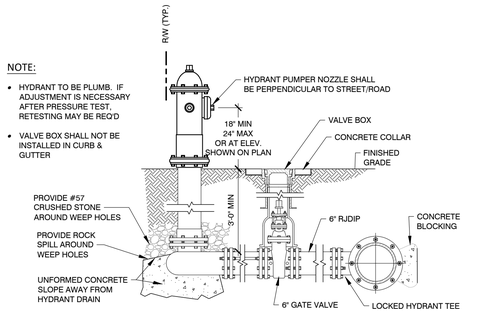
5 SANITARY SEWER STORM SEWER PIPE CROSSING

N.T.S.
SSWR-16



6 SEWER SERVICE CLEAN-OUT

N.T.S.
SSWR-07C

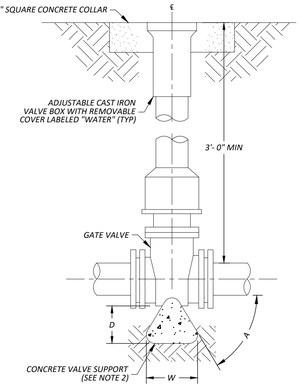


7 FIRE HYDRANT INSTALLATION

N.T.S.
WATR-03C

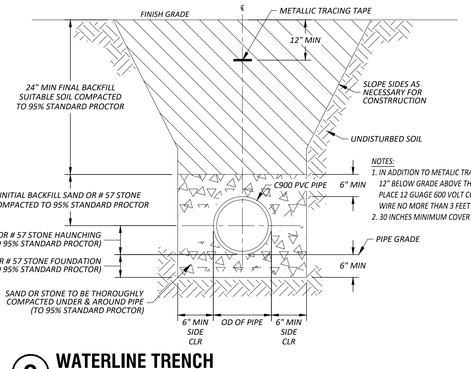
NOTES:
1. DIMENSION "D" SHALL BE LARGE ENOUGH TO MAKE ANGLE "A" EQUAL TO OR GREATER THAN 45°.
2. CONCRETE SHALL NOT INTERFERE WITH MECH. JOINT FITTINGS.

CONC BLOCKING SIZE		
PIPE SIZE	W	D
3"	1'-0"	SEE NOTE 1
4"	1'-0"	
6"	1'-3"	
8"	1'-6"	
12"	2'-3"	
16"	3'-0"	



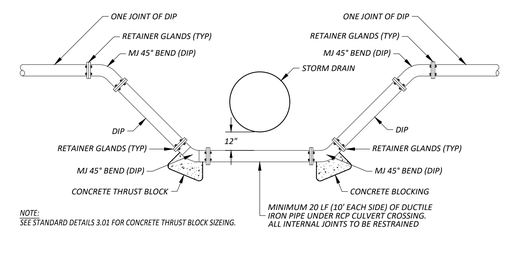
8 VALVE BOX

N.T.S.
WATR-31



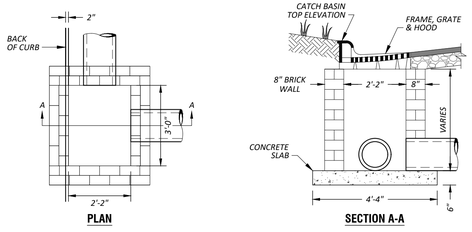
9 WATERLINE TRENCH

N.T.S.
WATR-37



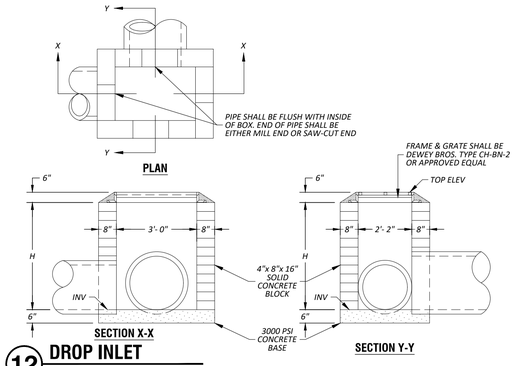
10 PIPE CROSSING STORM DRAIN

N.T.S.
SRRM-16



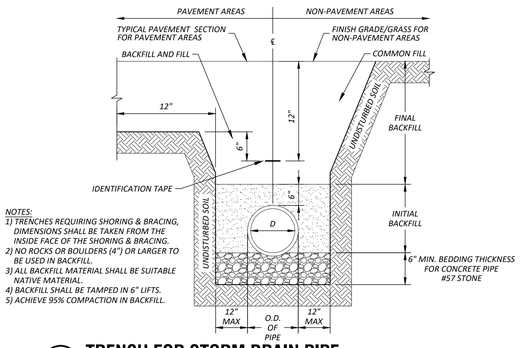
11 STANDARD CATCH BASIN

N.T.S.
STRM-17



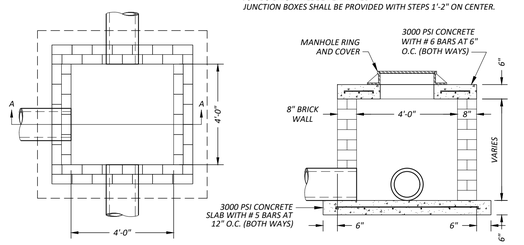
12 DROP INLET

N.T.S.
STRM-09



13 TRENCH FOR STORM DRAIN PIPE

N.T.S.
STRM-34



14 JUNCTION BOX

N.T.S.
STRM-09B

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NORTH CAROLINA PROFESSIONAL SEAL 043241 ENGINEER SCOTT B. RIVERS

Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

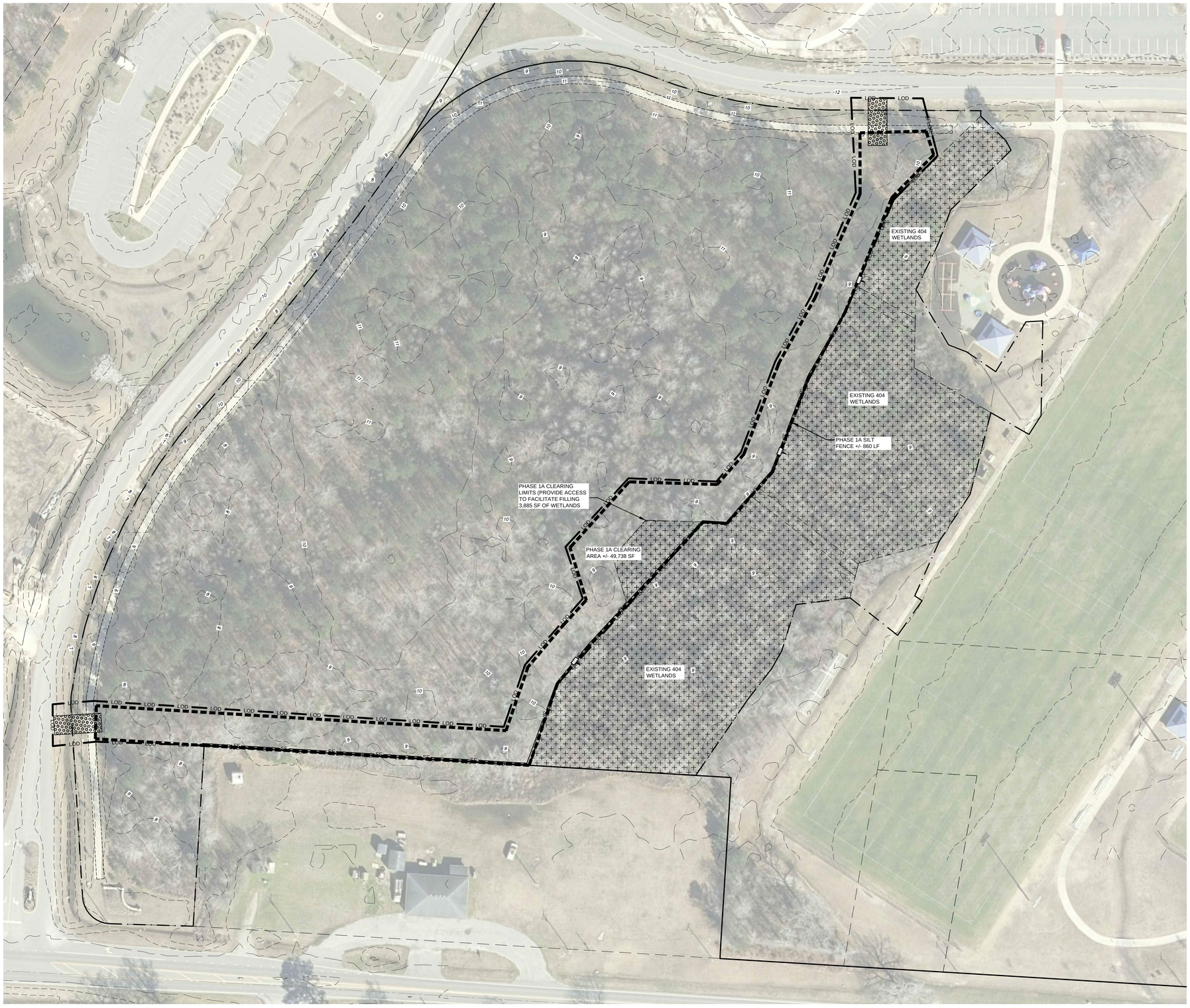
CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

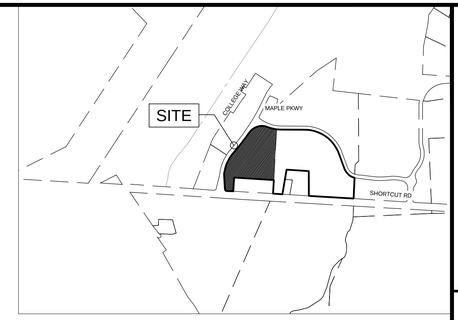
GRADING, DRAINAGE, & UTILITIES DETAILS

DESIGNED BY:	BR
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.21

Do Not Use for Construction - PRELIMINARY



PHASE 1A DISTURBED AREA = 1.43 ACRES
TOTAL DISTURBED AREA = 10.00 ACRES



VICINITY MAP

1" = 1000' - 0"

NOTE:

CONTRACTORS SHALL NOT CUT ANY TREES ON ON SITE DURING THE FOLLOWING TIME PERIODS: DECEMBER 15 THROUGH FEBRUARY 14 AND / OR APRIL 15 THROUGH JULY 31.

EROSION CONTROL LEGEND		
DESCRIPTION	SYMBOL	DETAIL
SILT FENCE	SF	
SILT FENCE OUTLET		
INLET PROTECTION		
PIPE INLET PROTECTION		
GRAVEL CONSTRUCTION ENTRANCE/EXIT		
TREE PROTECTION FENCE	TPF	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF	
TEMPORARY CHECK DAM		
LIMITS OF DISTURBANCE	LOD	
CONSTRUCTION FENCE	C	
CLEARING LIMITS		

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50' 0 25' 50'

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17230 JOSEPH STEPHEN JANKE

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

CLEARING, GRUBBING & EROSION CONTROL PLAN, PHASE 1A

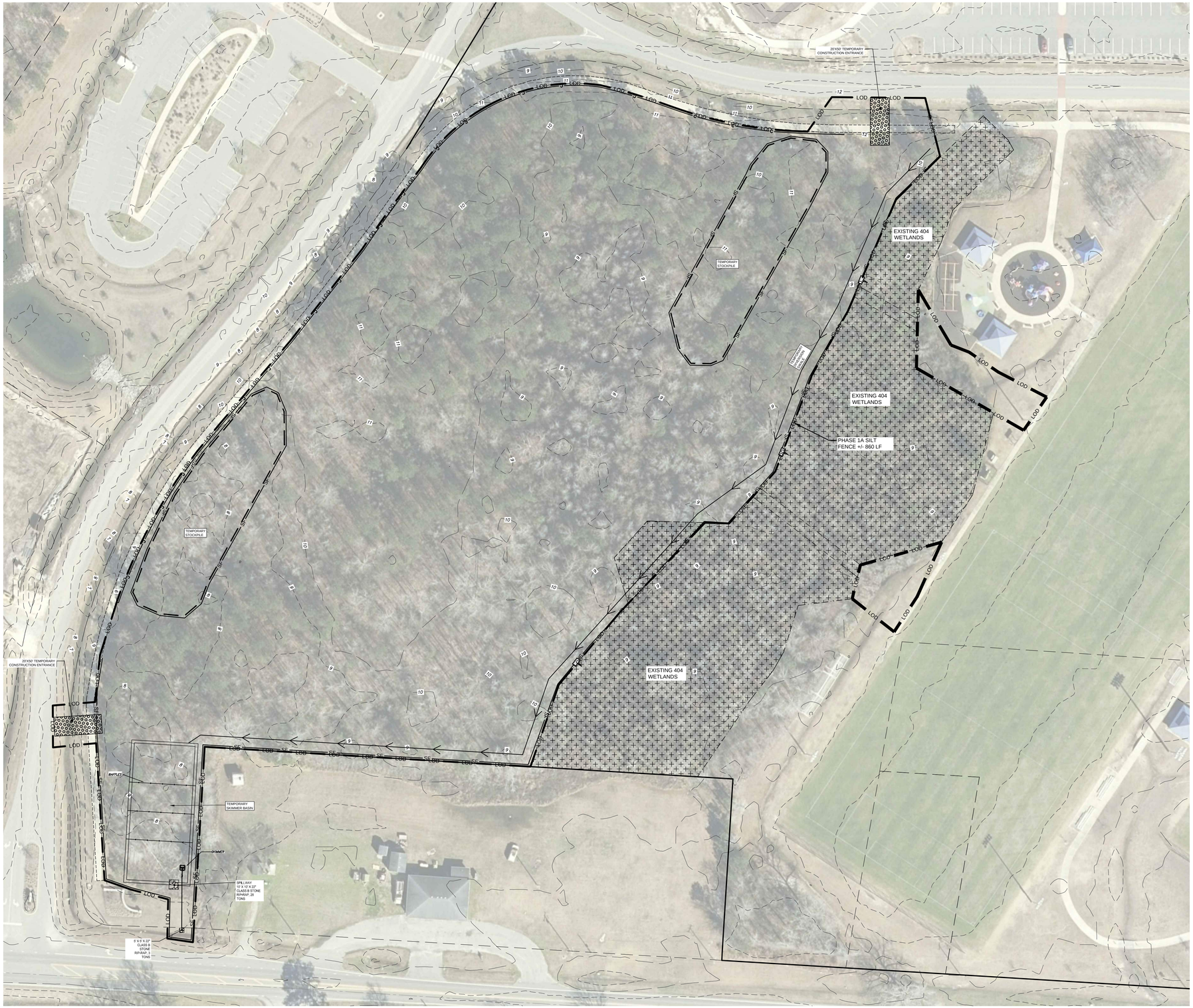
DATE: JUNE 20, 2023

DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	1:50

SHEET No.

C5.01

I:\RIVERS\2022\2022109\CAD\PLOT\PLT-2022109-EROSION CONTROL SHEETS.DWG - C5.01 - PHASE 1A EROSION CONTROL - 6/20/2023 3:43:57 PM - STAFF JANKE



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DESCRIPTION	SYMBOL	DETAIL
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SILT FENCE OUTLET		
INLET PROTECTION		
PIPE INLET PROTECTION		
GRAVEL CONSTRUCTION		
TREE PROTECTION FENCE	TPF	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF	
TEMPORARY CHECK DAM		
LIMITS OF DISTURBANCE	LOD	
CONSTRUCTION FENCE	C	

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TOTAL DISTURBED AREA = 10.00 ACRES

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 23241 JOSEPH STEPHEN JANNEY

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

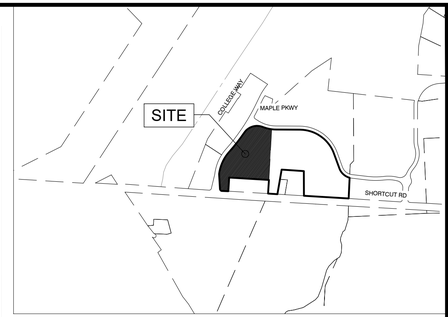
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

CLEARING, GRUBBING & EROSION CONTROL PLAN, PHASE 1B

DATE:	JUNE 20, 2023
DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	1:50
SHEET No.	C5.02

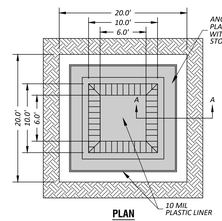
J:\WORKSHARE\CA\2022109\CAD\C_PLOT\2022109SCD01_SHEETC5.02.DWG, EROSION CONTROL PLAN - PHASE 1B, 6/20/2023 3:43:53 PM, STUART BARNES

EROSION CONTROL LEGEND	
DESCRIPTION	SYMBOL
SILT FENCE	SF
SILT FENCE OUTLET	
INLET PROTECTION	
GRAVEL CONSTRUCTION ENTRANCE/EXIT	
CONCRETE WASHOUT	
CURB INLET PROTECTION	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF
TEMPORARY CHECK DAM	
LIMITS OF DISTURBANCE	LOD
CONSTRUCTION FENCE	C

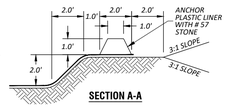


VICINITY MAP

1" = 1000' - 0"

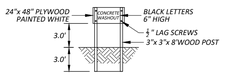


PLAN
BELOW GRADE



SECTION A-A

NOTES:
1) ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2) THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3) PIT CAPACITY IS A MIN. OF 6 CFT. PER 10 CYD. OF CONCRETE.
4) CONTRACTOR TO COORDINATE PROPER DISPOSAL OF CONCRETE.



CONCRETE WASHOUT SIGN OR EQUIVALENT

1 CONCRETE WASHOUT PIT

N.T.S.
EC-36

STAGE 1C CONSTRUCTION SEQUENCE

17. OBTAIN PLAN APPROVALS AND ALL APPROVALS AND ALL APPLICABLE PERMITS.
18. FLAG LIMITS OF CLEARING AND GRUBBING AND GRADING.
19. HOLD PRE-CONSTRUCTION MEETING WITH CONTRACTOR, EROSION CONTROL ADMINISTRATOR (252-946-6481), PROJECT ENGINEER, AND OWNER BEFORE WORK BEGINS.
20. INSTALL SILT FENCE FENCES AND SILT FENCE OUTLETS AS THE FIRST CONSTRUCTION ACTIVITY, CLEARING ONLY AS NECESSARY.
21. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE AND TEMPORARY DRIVEWAY PIPE.
22. PRIOR TO BEGINNING ANY SITE WORK OR GRADING, THE CONTRACTOR SHALL COMPLETE ALL SITE DEMOLITION AND/OR RELOCATION OF EXISTING UTILITIES. REFER TO THE DEMOLITION PLAN AND UTILITY PLAN.
23. BEGIN BRINGING SITE UP TO GRADE. THE CONTRACTOR SHALL CONSTRUCT THE RETAINING WALL AROUND THE PERIMETER OF THE PARKING LOT AREA.
24. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES

NOTE:
REFER TO PERMIT PLAN SHEETS C5.01, C5.02, C5.11, AND C5.21 FOR INITIAL SEDIMENTATION & EROSION CONTROL MEASURES.

CONTRACTORS SHALL NOT CUT ANY TREES ON ON SITE DURING THE FOLLOWING TIME PERIODS: DECEMBER 15 THROUGH FEBRUARY 14 AND / OR APRIL 15 THROUGH JULY 31.

NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

TOTAL DISTURBED AREA = 10.00 ACRES

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50' 0 25' 50'
SCALE 1 inch = **50** ft

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Raleigh, NC 27609
919.594.1626

NORTH CAROLINA PROFESSIONAL SEAL 032411 ENGINEER JOSEPH S. JAMES

Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

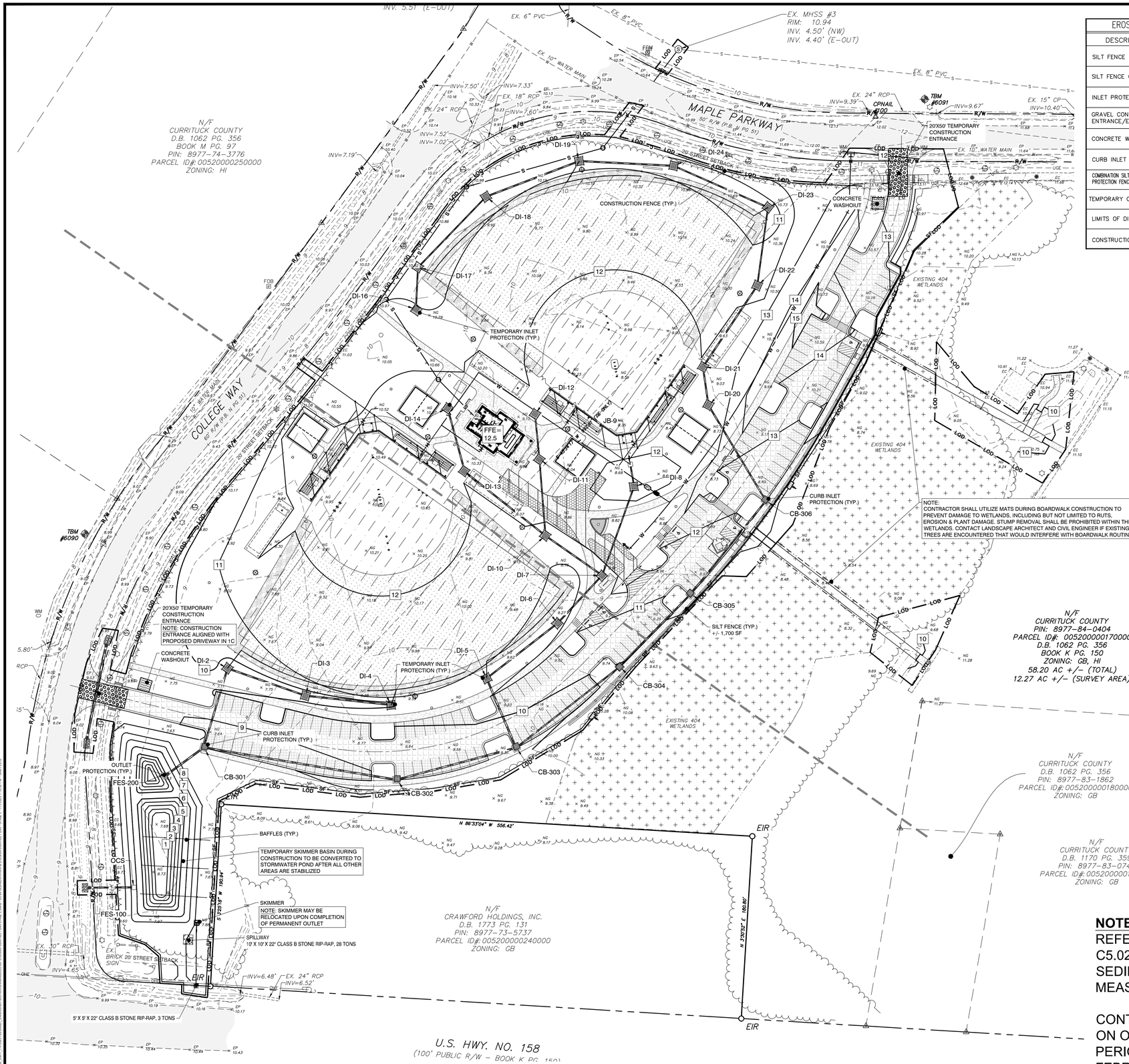
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

SEDIMENTATION & EROSION CONTROL PLAN - STAGE 1C

DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	**C5.03**

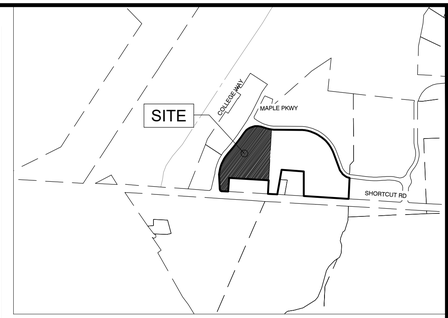
Do Not Use for Construction - PRELIMINARY



TOTAL DISTURBED AREA = 10.00 ACRES

EROSION CONTROL LEGEND	
DESCRIPTION	SYMBOL
SILT FENCE	SF
SILT FENCE OUTLET	
INLET PROTECTION	
GRAVEL CONSTRUCTION ENTRANCE/EXIT	
CONCRETE WASHOUT	
CURB INLET PROTECTION	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF
TEMPORARY CHECK DAM	
LIMITS OF DISTURBANCE	LOD
CONSTRUCTION FENCE	C

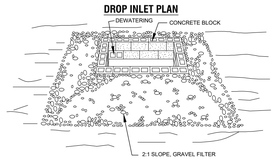
NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.



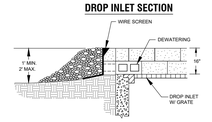
VICINITY MAP

1" = 1000' - 0"

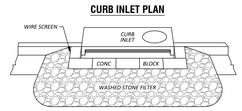
DROP INLET PLAN



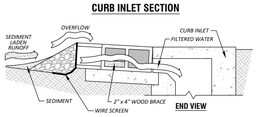
DROP INLET SECTION



CURB INLET PLAN



CURB INLET SECTION



NOTES:
1) SEDIMENT BARRIERS SHALL BE PROVIDED FOR ALL CURB INLETS IN THE IMMEDIATE AREA OF CONSTRUCTION.
2) TWO CONCRETE BLOCKS SHALL BE PLACED ON THEIR SIDES ABUTTING THE CURB AT EITHER SIDE OF THE INLET OPENING. A 2" x 4" STUD SHALL BE CUT AND PLACED THROUGH THE OUTER HOLES OF THE SPACER BLOCKS TO BRACE THE FRONT BLOCKS. FRONT BLOCKS ARE PLACED ON THEIR SIDES ACROSS THE INLET AND ABUTTING THE SPACER BLOCKS.
3) NCDOT # 57 STONE SHALL BE PLACED AGAINST THE WIRE TO THE TOP OF THE BLOCK.

NOTE THAT THIS MEASURE IS NOT TO BE USED ON CITY STREETS OPEN TO TRAFFIC AND/OR WHERE THE FINISHED COURSE OF ASPHALT HAS BEEN PLACED.

CONSTRUCTION SPECIFICATIONS:
1. *LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2 X 4 WOOD STUDS THROUGH BLOCK OPENINGS.*
2. *CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH ½-INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.*
3. *USE CLEAN GRAVEL, ¾- TO ½-INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.*
4. *IF ONLY STONE AND GRAVEL ARE USED, KEEP THE SLOPE TOWARD THE INLET NO STEEPER THAN 3:1. LEAVE A MINIMUM 1-FOOT WIDE LEVEL STONE AREA BETWEEN THE STRUCTURE AND AROUND THE INLET TO PREVENT GRAVEL FROM ENTERING INLET. ON THE SLOPE TOWARD THE INLET, USE STONE 3 INCHES IN DIAMETER OR LARGER. ON THE SLOPE AWAY FROM THE INLET USE ½ - ¾-INCH GRAVEL (NCDOT #57 WASHED STONE) AT A MINIMUM THICKNESS OF 1-FOOT.*

MAINTENANCE:
1. *INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½ INCH OR GREATER) RAINFALL AND MAKE REPAIRS AS NEEDED.*
2. *REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.*
3. *WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.*

1 TEMPORARY BLOCK & GRAVEL INLET PROTECTION

N.T.S.

STAGE 2 CONSTRUCTION SEQUENCE

25. INSTALL STORM PIPE SYSTEM AND TEMPORARY INLET PROTECTION. GRADE ALL PERMANENT SWALES/DITCHES, AND INSTALL DITCH LINERS. INSTALL PROPOSED UTILITIES.
26. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE OWNER OR COUNTY ENGINEER IF DEEMED NECESSARY.
27. INSTALL IRRIGATION SYSTEM MAINLINES AND OUTLETS.
28. EXCAVATE AND POUR CONCRETE FOOTINGS: LIGHT TOWERS, DUGOUTS, BLEACHERS, ETC.
29. AFTER GRADING IS COMPLETE, THEN ESTABLISH PERMANENT GROUND COVER ON ALL DISTURBED AREAS, INCLUDING PAVING, LANDSCAPING, MULCH, AND ESTABLISH A DENSE STAND OF GRASS. ANY BARE SPOTS, EROSIVE RILLS OR EROSIVE SLOPES SHALL BE PERMANENTLY STABILIZED WITH AN EROSION CONTOL BLANKET AND GRASS (SEED, HYDROSEED OR SOD AS NEEDED). THE CONTRACTOR SHALL WATER ALL VEGETATION AS NEEDED FOR HEALTHY PLANTS AND GRASS UNTIL CONSTRUCTION IS COMPLETE AND APPROVED BY MUNICIPALITIES.
30. INSTALL BALL FIELD DRAIN TILE SYSTEMS AND DRAIN OUTLETS.
31. INSTALL ELECTRIC LINES, CABLES, OUTLETS TO LIGHT TOWERS, DUGOUTS, STANDS.
32. LAY OUT STABILIZED AREAS: HAUL IN AGGREGATE FOR WARNING TRACKS, PATHS TO HOME PLATE IN FRONT OF DUGOUTS.
33. PREPARE NATIVE TOPSOIL PER PROJECT SPECS. REMOVE ALL SOIL FROM THE EXISTING FIELD AREA AND REPLACE WITH DRAINAGE SYSTEM AND SAND-BASED ROOT ZONE FOR THE GROWING MEDIUM.
34. STERILIZE NATIVE SOILS MATERIAL IF POSSIBLE.
35. ROTO-TILL THE SOIL FOR UNIFORM AND THOROUGH MIXING. REWORK THE AREA TO GRADE ELEVATIONS WITH LASER GRADER.
36. VERIFY ELEVATIONS WITH SURVEYS REPORT.
37. ROLL THE AREA TO A FIRM SOIL.
38. INSTALL BACK STOPS, FENCES, SCOREBOARD, FLAG POLE, FOUL LINE MARKER.
39. BUILD PITCHER'S MOUND.
40. SPREAD STARTING FERTILIZER AT BALL FIELDS.
41. FINISH GRADING WITH LASER DEVISE: REMEASURE DIAMOND AND CAREFULLY RECHECK ELEVATIONS.
42. SET THE HOME PLATE, PITCHER'S PLATE ANCHORS, AND BASE ANCHORS.
43. MARK ALL GRASS LINES, CIRCLES, ARCS, AND BOXES WITH CHALK OR LIME.
44. PLANT THE AREA WITH SOD PER PROJECT SPECS.
45. INSTALL WARNING TRACKS.
46. FINISH CONSTRUCTION AND INSTALLATION OF DUGOUTS, LIGHT TOWERS, BLEACHERS, BUILDING, SHELTERS, AND PARKING LOT.
47. ONCE 80% STABILIZATION HAS BEEN ACHIEVED AND A DENSE STAND OF GRASS ESTABLISHED, REMOVE ALL TEMPORARY MEASURES, FINE GRADE DISTURBED AREAS, AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS. CONTACT EROSION CONTROL INSPECTOR FOR ONSITE INSPECTION.
48. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL COMPLETION OF THE PROJECT.
49. WITHIN 6' OF FINAL GRADE, RE-DISTRIBUTE 6" OF TOP SOIL.
50. FINE GRADE, PERMANENTLY SEED AND MULCH ALL-LANDSCAPED AREAS. HOLD FINAL ONSITE INSPECTION WITH EROSION CONTROL INSPECTOR AND OBTAIN FINAL APPROVAL.

NOTE:
REFER TO PERMIT PLAN SHEETS C5.01, C5.02, C5.11, AND C5.21 FOR INITIAL SEDIMENTATION & EROSION CONTROL MEASURES.

CONTRACTORS SHALL NOT CUT ANY TREES ON ON SITE DURING THE FOLLOWING TIME PERIODS: DECEMBER 15 THROUGH FEBRUARY 14 AND / OR APRIL 15 THROUGH JULY 31.

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50' 0 25' 50'
SCALE 1 inch = 50 ft

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NORTH CAROLINA PROFESSIONAL SEAL 032401 ENGINEER JOSEPH S. JOHNSON
Preliminary DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA
SEDIMENTATION & EROSION CONTROL PLAN - STAGE 2

DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C5.04

Do Not Use for Construction - PRELIMINARY

DATE:

PAGE:

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

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

SECTION E: GROUND STABILIZATION

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

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

GROUND STABILIZATION SPECIFICATION

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

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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

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

PORTABLE TOILETS

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

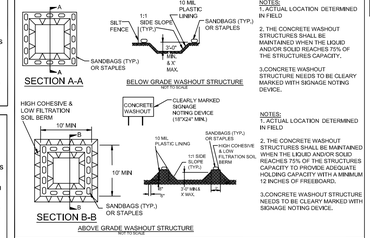
EARTHEN STOCKPILE MANAGEMENT

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

HAZARDOUS AND TOXIC WASTE

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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

NORTH CAROLINA *Environmental Quality*

EFFECTIVE DATE: 11/12/2020

NCG-01 GROUND COVER & MATERIALS HANDLING

DATE:

PAGE:

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

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

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

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

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

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

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed If shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all Inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.
(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
(d) Anticipated bypasses and unanticipated bypasses.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframe (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related caused, the permittee may be required to perform additional monitoring, Inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• Within 24 Hours, an oral or electronic notification, The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• *A report at least ten days before the date of the bypass, if possible.* The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41((k)(7)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

NORTH CAROLINA *Environmental Quality*

EFFECTIVE DATE: 11/12/2020

NCG01- SELF INSPECTION

TEMPORARY SEEDING SCHEDULE

(TO TEMPORARILY STABILIZE DENUDED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF 15 WORKING DAYS)

SEEDING DATES: DECEMBER 1 THRU APRIL 15

SEEDING MIXTURE: SPECIES
RATE (LBS/AC)

RYE (GRAIN)
120
ANNUAL LESPEDEZA (KOBE)
50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
750 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING DATES: APRIL 15 – AUGUST 15

SEEDING MIXTURE: SPECIES
RATE (LBS/AC)

GERMAN MILLET
40

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
750 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING DATES: AUGUST 15 THRU DECEMBER 15

SEEDING MIXTURE: SPECIES RATE
(LBS/AC)

RYE (GRAIN) 120

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
1000 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OF A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LBS/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LBS/AC KOBE IN LATE FEBRUARY OR EARLY MARCH

CONSTRUCTION SCHEDULE

PHASE 1A
1. OBTAIN PLAN APPROVALS AND ALL APPROVALS AND ALL APPLICABLE PERMITS.
2. FLAG LIMITS OF CLEARING AND GRUBBING AND GRADING.
3. HOLD PRE–CONSTRUCTION MEETING WITH CONTRACTOR, EROSION CONTROL ADMINISTRATOR (252–946–6481), PROJECT ENGINEER, AND OWNER BEFORE WORK BEGINS.
4. INSTALL SILT FENCE FENCES AND SILT FENCE OUTLETS AS THE FIRST CONSTRUCTION ACTIVITY.
5. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
6. INSTALL SILT FENCE PER PLAN.
7. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR STEEPER.

PHASE 1B
8. INSTALL TEMPORARY SEDIMENT BASIN AND DIVERSION SWALE PER PLAN.
9. BEGIN CLEARING AND GRUBBING SITE IN DESIGNATED AREAS AND STOCKPILE IN DESIGNATED AREA..
10. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR STEEPER.
11. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE OWNER OR CITY ENGINEER IF DEEMED NECESSARY.
12. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES, FINE GRADE DISTURBED AREAS, AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
13. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL COMPLETION OF THE PROJECT.
14. WITHIN 6" OF FINAL GRADE, RE–DISTRIBUTE 6" OF TOP SOIL.
15. FINE GRADE, PERMANENTLY SEED AND MULCH ALL–LANDSCAPED AREAS.
16. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES UPON COMPLETION AND STABILIZATION OF PROJECT(±80%).

PERMANENT SEEDING SCHEDULE

IN ROADWAY AREAS:

MARCH 1 – AUGUST 31:
SEED MIX: RATE:
TALL FESCUE 50 LB/AC
CENTIPEDE 10 LB/AC
BERMUDAGRASS (HULLED) 25 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

SEPTEMBER 1 – FEBRUARY 28:
SEED MIX: RATE:
TALL FESCUE 50 LB/AC
CENTIPEDE 10 LB/AC
BERMUDAGRASS (UNHULLED) 35 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

IN WASTE/BORROW AREAS:

MARCH 1 – AUGUST 31:
SEED MIX: RATE:
TALL FESCUE 75 LB/AC
BERMUDAGRASS (HULLED) 25 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

SEPTEMBER 1 – FEBRUARY 28:
SEED MIX: RATE:
TALL FESCUE 75 LB/AC
BERMUDAGRASS (UNHULLED) 35 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

MULCH:
APPLY 4,000 LB/ACRE GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR BY TACKING WITH ASPHALT, ROVING, NETTING, OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REFERTILIZE THE FOLLOWING APRIL WITH 50 LB/ACRE NITROGEN.
REPEAT AS GROWTH REQUIRES. MAY BE MOWED AS OFTEN AS NEEDED.

NOTE: SEE NCDOT'S LATEST STANDARDS FOR STABILIZATION FOR MORE INFORMATION.

TEMPORARY SEEDBED PREPARATION

1. A GOOD SEEDBED IS WELL PULVERIZED, LOOSE, AND UNIFORM.
2. LIMING – APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS. IF THE pH (ACIDITY) OF THE SOIL IS NOT KNOWN, AN APPLICATION OF GROUND AGRICULTURAL LIMESTONE AT THE RATE OF 1 – 1.5 TONS/ACRE ON FINE TEXTURED SOILS AND 2–3 TONS/ACRE ON COARSE TEXTURED SOILS IS USUALLY SUFFICIENT. APPLY LIMESTONE UNIFORMLY AND INCORPORATE INTO THE TOP 4–6 INCHES OF THE SOIL. SOILS WITH A pH OF 6 OR HIGHER NEED NOT BE LIMED.
3. FERTILIZER – BASE APPLICATION RATES ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE APPLY A 10–10–10 GRADE FERTILIZER AT 700 – 1000 LB/ACRE. BOTH FERTILIZER AND LIME SHOULD BE INCORPORATED INTO THE TOP 4–6 INCHES OF SOIL. IF A HYDRAULIC SEEDER IS USED, DO NOT MIX SEED AND FERTILIZER MORE THAN 30 MINUTES BEFORE APPLICATION.
4. SURFACE ROUGHENING – IF RECENT TILLAGE OPERATIONS HAVE RESULTED IN A LOOSE SURFACE, ADDITIONAL ROUGHENING MAY NOT BE REQUIRED, EXCEPT TO BREAK UP LARGE CLODS. IF RAINFALL CAUSES THE SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING BY DISKING, RAKING, HARROWING, OR OTHER SUITABLE METHODS. GROOVE OR FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR BEFORE SEEDING. SEE OTHER REQUIREMENTS FOR SURFACE ROUGHENING ON THIS SHEET.

PERMANENT SEEDBED PREPARATION

1. INSTALL NECESSARY MECHANICAL EROSION AND SEDIMENTATION CONTROL PRACTICES BEFORE SEEDING, AND COMPLETE GRADING ACCORDING TO THE APPROVED PLAN.
2. LIME AND FERTILIZER NEEDS SHOULD BE DETERMINED BY SOIL TESTS. SOIL TESTING IS PERFORMED FREE OF CHARGE BY THE NC DEPT. OF AGRICULTURE. SOIL TESTING LABORATORY DIRECTIONS, SAMPLE CARTONS, AND INFORMATION ARE AVAILABLE THROUGH COUNTY AGRICULTURAL EXTENSION OFFICES OR FROM NCDA. BECAUSE THE NCDA SOIL TESTING LAB REQUIRES 1–6 WEEKS FOR SAMPLE TURN–AROUND, SAMPLING MUST BE PLANNED WELL IN ADVANCE OF FINAL GRADING. TESTING IS ALSO DONE BY COMMERCIAL LABORATORIES.
3. WHEN SOIL TESTS ARE NOT AVAILABLE, FOLLOW RATES SUGGESTED IN THE PERMANENT SEEDING SCHEDULE ON THIS SHEET. APPLICATION RATES USUALLY FALL INTO THE FOLLOWING RANGES:

   GROUND AGRICULTURAL LIMESTONE:
   LIGHT TEXTURED, SANDY SOILS: 1 – 1.5 TONS/ACRE
   HEAVY TEXTURED, CLAYEY SOILS: 2 – 3 TONS/ACRE

   FERTILIZER:
   GRASSES: 800 – 1200 LB/ACRE OF 10–10–10 (OR EQUIVALENT)
   GRASS–LEGUME MIXTURES: 800 – 1200 LB/ACRE OF 5–10–10 (OR EQUIVALENT)

4. APPLY LIME AND FERTILIZER EVENLY AND INCORPORATE INTO THE TOP 4–6 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. OPERATE MACHINERY ON THE CONTOUR.
5. ROUGHEN SURFACES IN ACCORDANCE WITH THE NOTES ON SURFACE ROUGHENING ON THIS SHEET.
6. COMPLETE SEEDBED PREPARATION BY BREAKING UP LARGE CLODS AND RAKING INTO A SMOOTH, UNIFORM SURFACE (SLOPES LESS THAN 3:1.) FILL IN OR LEVEL DEPRESSIONS THAT CAN COLLECT WATER. BROADCAST SEED INTO A FRESHLY LOOSENED SEEDBED THAT HAS NOT BEEN SEALED BY RAINFALL.

NEW STABILIZATION TIMEFRAMES

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
SLOPES STEEPER THAN 3:1	7 DAYS	NONE EXCEPT FOR PERIMETER AND HQW ZONES
SLOPES 3:1 OR FLATTER	14 DAYS	NONE
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE

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NORTH CAROLINA PROFESSIONAL ENGINEER 12924 STEPHEN J. ANNOTTI

REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

EROSION CONTROL NOTES

DATE: JUNE 20, 2023
DESIGNED BY: JSJ
DRAWN BY: SCB
CHECKED BY: JSJ
PROJECT No. 2022109
DRAWING No. W-4080
SCALE: N/A
SHEET No.

C5.11

M:\2022\2022109\CAD\CURRITUCK COUNTY PARK\2022109EROSION CONTROL NOTES.DWG, 6/20/2023 10:50:57 AM, JSJ

NOTES:

1. USE STANDARD STRENGTH FABRIC W/ 8' POST SPACING AND WIRE FENCING WHERE REINFORCED SILT FENCE IS REQUIRED.

2. WITH EXTRA STRENGTH FABRIC USE 6' POST SPACING AND NO WIRE FENCING.

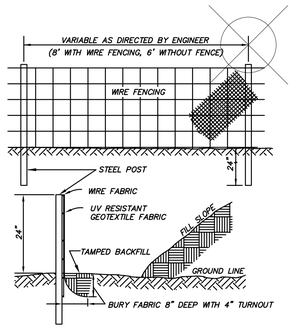
3. WIRE FENCING TO BE 32", WITH 6 LINE WIRES AND STAY WIRES ON 12" CENTERS/ BOTTOM AND TOP WIRES 10 GA., INTERMEDIATE WIRES 12.5 GA.

4. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REPAIRS IMMEDIATELY.

5. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

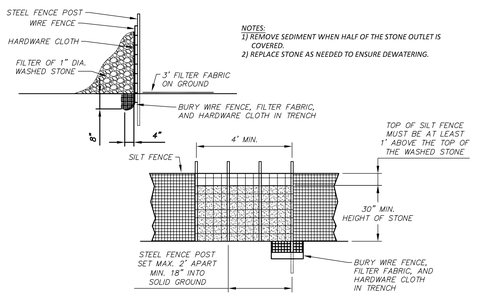
6. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

7. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



1 TEMPORARY SILT FENCE

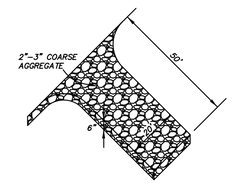
N.T.S.
EC-1(JC)



NOTES:
1) REMOVE SEDIMENT WHEN HALF OF THE STONE OUTLET IS COVERED.
2) REPLACE STONE AS NEEDED TO ENSURE DEWATERING.

2 SILT FENCE OUTLET

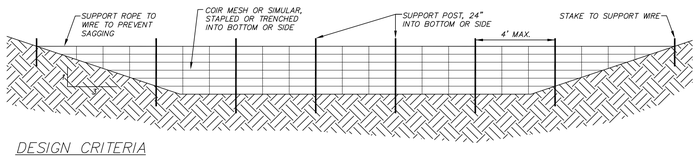
N.T.S.
(JC)



NOTES:
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.

3 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

N.T.S.
STH-26 (JC)



DESIGN CRITERIA

THE PERCENT OF SURFACE AREA FOR EACH SECTION OF THE BAFFLE ARE AS FOLLOWS:

- INLET ZONE 35%
- FIRST CELL 25%
- SECOND CELL 25%
- OUTLET ZONE 15%

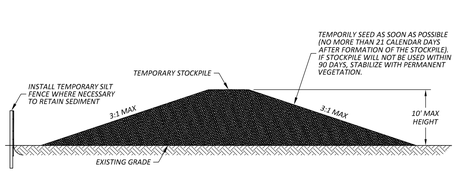
NOTE:
BAFFLES TO BE REMOVED UPON SITE STABILIZATION AND PRIOR TO EXCAVATION FOR FINAL CONTOURS FOR DRY DETENTION CELL.

4 BAFFLE DETAIL

N.T.S.
EC-42

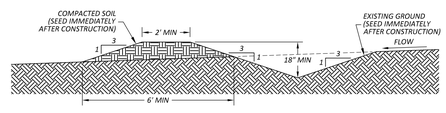
TEMPORARY BAFFLE NOTES:
1) GRADE THE BASIN SO THAT THE BOTTOM IS LEVEL (FRONT TO BACK & SIDE TO SIDE).
2) INSTALL POSTS OR SAWHORSES THE WIDTH OF THE SEDIMENT TRAP.
3) STEEL POSTS SHOULD BE DRIVEN TO A DEPTH OF 24", SPACED A MAXIMUM OF 4' APART & INSTALLED ON THE SIDES OF THE BASIN AS WELL. THE TOP OF THE FABRIC SHOULD BE 6" HIGHER THAN THE INVERT OF THE SPILLWAY. TOPS OF BAFFLES SHOULD BE 2" LOWER THAN THE TOP OF THE BERMS.
4) INSTALL AT LEAST (3) ROWS OF BAFFLES BETWEEN THE INLET & OUTLET DISCHARGE POINT. BASINS 20' IN LENGTH MAY USE (2) BAFFLES.
5) WHEN USING POSTS, ADD SUPPORT WIRE OR ROPE ACROSS THE TOP OF THE MEASURE TO PREVENT SAGGING.
6) WRAP POROUS MATERIAL (JUTE BACKED OR COIR) OVER SAWHORSES OR THE TOP WIRE. HAMMER REBAR INTO THE SAWHORSE LEGS.
FOR ANCHORING. THE FABRIC SHOULD HAVE 5% TO 10% OPENINGS IN THE WEAVE. ATTACH FABRIC TO A ROPE AND A SUPPORT
STRUCTURE WITH ZIP TIES, WIRE OR STAPLES.
7) THE BOTTOM & SIDES OF THE FABRIC SHOULD BE ANCHORED IN A TRENCH OR PINNED WITH 8" EROSION CONTROL MATTING STAPLES.
8) DO NOT SPLICE FABRIC, BUT USE A CONTINUOUS PIECE ACROSS THE BASIN.

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



5 TEMPORARY STOCKPLE

N.T.S.
EC-22



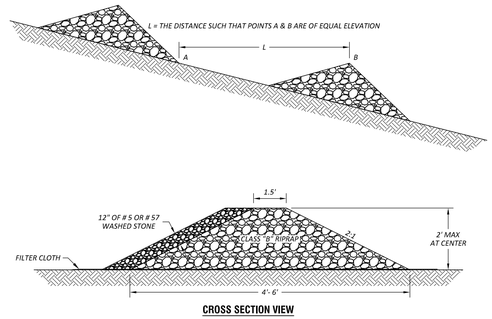
TEMPORARY DIVERSIONS

CONSTRUCTION SPECIFICATIONS:
1) REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.
2) ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS.
3) ENSURE THAT THE TOP OF THE DIKE IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENT.
4) PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REGARDING AND CLEANOUT.
5) VEGETATE THE RIDGE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.

MAINTENANCE:
INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

6 TEMPORARY DIVERSION DITCH

N.T.S.
W-SPEC-1



CROSS SECTION VIEW

ROCK CHECK DAM

CONSTRUCTION SPECIFICATIONS:
1) PLACE STONE TO THE LINES AND DIMENSIONS SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
2) KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS.
3) EXTEND STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM.
4) SET SPACING BETWEEN DAMS TO ASSURE THAT THE ELEVATION AT THE TOP OF THE LOWER DAM IS THE SAME AS THE TOE ELEVATION OF THE UPPER DAM.
5) PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION.
6) MAKE SURE THAT THE CHANNEL REACH ABOVE THE MOST UPSTREAM DAM IS STABLE.
7) ENSURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CULVERT ENTRANCES BELOW THE CHECK DAMS, ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

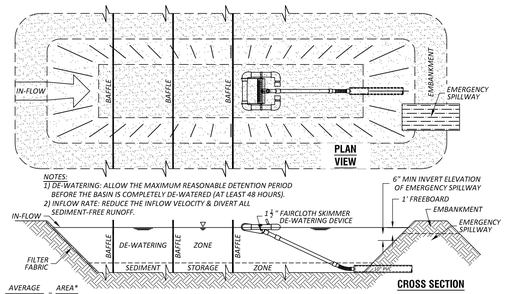
MAINTENANCE:
INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.

ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL

REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

7 TEMPORARY ROCK CHECK DAM

N.T.S.
W-SPEC-8



NOTES:
1) DE-WATERING: ALLOW THE MAXIMUM REASONABLE DETENTION PERIOD BEFORE THE BASIN IS COMPLETELY DE-WATERED (AT LEAST 48 HOURS).
2) INFLOW BATE: REDUCE THE INFLOW VELOCITY & DIVERT ALL SEDIMENT-FREE RUNOFF.

* AREA OF BASIN WATER SURFACE AT TOP OF PRINCIPAL SPILLWAY ELEVATION

SKIMMER TRAP

CONSTRUCTION SPECIFICATIONS:
1) CLEAR, GRUB AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.
2) ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
3) SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OF PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.
4) PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES.

PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.

5) ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED.
6) LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE.
7) EARTHEN SPILLWAYS - INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTION(S) SHOULD OVERLAP THE LOWER SECTION(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS.
8) INLETS - DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY
9) EROSION CONTROL - CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION.
10) INSTALL POROUS BAFFLES.
11) AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY.

MAINTENANCE:
INSPECT SKIMMER SEDIMENT TRAP(S) AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OF THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

8 SEDIMENT TRAP WITH SKIMMER

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EC-42

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107 East Second Street
Greenville, NC 27858
(252) 752-4135

NORTH CAROLINA PROFESSIONAL SEAL 12224 ENGINEER STEPHEN J. NOWOSIELSKI

REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

EROSION CONTROL DETAILS

DATE:	JUNE 20, 2023
DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	N/A
SHEET No.	C5.21

G:\RIVERS\PROJECTS\2022\2022109\CAD_DWG\PLANSHEETS\2022109_PHASE III PLANSHEETS-EROSION CONTROL DETAILS.DWG, 6/20/2023 9:42:53 AM, STEPHEN NOWOSIELSKI

FES-100
INV. 5.10' (E)

15" RCP - 42.11 LF @ 0.24%

OCS
RISER ELEV= 6.80
INV. 5.20' (W-OUT)

6.5' WIDE FOREBAY SHELF
AT ELEV. = 5.0'
LINE WITH CLASS 'A' RIPRAP

FOREBAY AREA = 2016 SF
BOTTOM ELEV. = 1.0'

EMERGENCY SPILLWAY AT ELEV.
=7.5
LINE WITH FIBER MAT

6'-8" WIDE VEGETATIVE SHELF AT
ELEV. = 5.0' TO 6.0'
MAIN POND AREA 7051 SF

WET POND SURFACE
ELEV. = 5.0'
PERMANENT POND AREA = 6,244 SF

CB-301
RIM: 8.90
INV. 5.13' (E)
INV. 5.13' (N)
INV. 5.13' (SW-OUT)

FES-200
INV. 5.00' (NE)

18" RCP - 42.41 LF @ 0.30%

S 3°25'18" W 190.94'

INV=4.65'

INV=6.48'

20' STREET SETBACK

SCALE 1 inch = 10 ft

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Six Forks Place III Ste. 230
353 E. Six Forks Road
Raleigh, NC 27609
919.594.1626

NORTH CAROLINA PROFESSIONAL SEAL 032109 ENGINEER BRIAN RIVERS

Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

STORMWATER CONTROL PLAN

DESIGNED BY:	BR
DRAWN BY:	SBF, TAH
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C6.01

Do Not Use for Construction - PRELIMINARY

TEMPORARY RISER WITH SKIMMER BASIN TO PERMANENT WET DETENTION POND CONVERSION SEQUENCE

1. **PRIOR TO BEGINNING THE POND CONVERSION, THE CONTRACTOR SHALL CONTACT THE EROSION CONTROL INSPECTOR, AND THE COUNTY INSPECTOR TO REQUEST PERMISSION TO BEGIN THE POND CONVERSION.**
2. **PRIOR TO BEGINNING THE POND CONVERSION, THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED SURFACES IN THE UPSTREAM DRAINAGE AREA TO THE POND ARE PERMANENTLY STABILIZED WITH PERMANENT GROUND COVER (BUILDINGS, ASPHALT/CONCRETE, PARKING LOTS, SIDEWALKS, MULCH, LANDSCAPING, DITCH LINERS, AND A DENSE STAND OF GRASS.**
3. **THE TEMPORARY SEDIMENT BASIN SHALL BE DEWATERED USING A PUMP AND A SEDIMENT FILTER BAG ACCORDING TO NCDEQ STANDARDS. DISCHARGE THE WATER INTO THE RISER OR DRAINAGE OUTLET.**
4. **THE CONTRACTOR SHALL MEET ONSITE WITH THE PROJECT GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL PROVIDE FIELD GUIDANCE AS NEEDED REGARDING POTENTIAL ADDITIONAL DEWATERING MEASURES AND POND SLOPE STABILIZATION.**
5. **CONTRACTOR TO CONFIRM THAT THE PERMANENT RISER, ORIFICES, OUTLET PIPE, ANTI-SEEP COLLAR, AND CUTOFF TRENCH WERE ACCURATELY INSTALLED PER THE SCM PLAN/DETAILS SHEET, AND INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER AT THE TIME OF INITIAL BASIN CONSTRUCTION. SURVEY VERIFY AND MAKE ANY REPAIRS NEEDED.**
6. **ACCURATELY FINE GRADE THE ENTIRE POND ACCORDING TO THE SCM PLAN/DETAILS SHEET. THIS INCLUDES THE TOP OF BERM, EMBANKMENT, SLOPES, SPILLWAY, VEGETATED SHELF, MAIN POOL, FOREBAY BERM, FOREBAY, TOP OF SLOPES, TOE OF SLOPES. ALL GRADED SURFACES SHALL BE ACCURATELY GRADED TO WITHIN +/- 0.2 FEET OF VERTICAL TOLERANCE. THE CONTRACTOR SHALL RETAIN A SURVEYOR TO PERFORM CONSTRUCTION STAKEOUT AND ASBUILT SURVEY OF THE POND. PAY SPECIAL ATTENTION TO THE ACCURATE GRADING OF THE TOP OF BANK WIDTH/ELEVATION, THE 4 CORNERS OF THE SPILLWAY, SLOPES, AND THE VEGETATED SHELF.**
7. **REMOVE THE TEMPORARY SKIMMER. REMOVE THE TEMPORARY PLUGS IN THE WATER QUALITY DRAWDOWN ORIFICE AND THE DETENTION DRAWDOWN ORIFICE AS SHOWN IN THE OUTLET CONTROL STRUCTURE DETAIL. ENSURE THAT THE SCREW-ON CAP WITH ORIFICE IS PROPERLY INSTALLED ON THE WATER QUALITY DRAWDOWN PER THE OCS DETAIL. ENSURE THAT THE TRASH RACK IS PROPERLY INSTALLED AND OPENS IN THE DIRECTION SHOWN TO ALLOW MAINTENANCE ACCESS FROM THE BERM. ENSURE THAT ALL INVERTED PVC SIPHONS ARE CORRECTLY INSTALLED WITH NO LEAKS, AT THE PROPER ELEVATIONS. ENSURE THAT THE RISER STEPS ARE INSTALLED.**
8. **MUCK OUT THE BASIN. EXCAVATE THE MAIN POOL AND FOREBAY AREAS PER THE CONTOURS SHOWN ON THE SCM PLAN.**
9. **CONFIRM THAT ALL STORM PIPES, FES'S, CONCRETE ENDWALLS, ETC. ARE INSTALLED PER PLANS. INSTALL PERMANENT RIPRAP OVER FILTER FABRIC ON THE FOREBAY BERM, AND AT ALL STORM PIPE OUTLETS PER PLANS. REMOVE THE TEMPORARY IMPERMEABLE MEMBRANE LINER ON THE SPILLWAY.**
10. **AS SOON AS THE POND IS ACCURATELY GRADED, THEN PROMPTLY HAVE AN ASBUILT SURVEY OF THE POND PERFORMED. SURVEY RISER TOP ELEVATION, RISER ORIFICE ELEVATIONS/DIAMETERS, TOP OF BERM WIDTH/ELEVATION, 4 CORNERS OF THE EMERGENCY SPILLWAY ELEVATION, BOTH EDGES OF VEGETATED SHELF ELEVATIONS, ALL SLOPES, PIPE INVERTS, MAIN POOL, FOREBAY BERM AND FOREBAY. SUBMIT ASBUILT CAD FILE WITH SURVEYED AUTOCAD POINTS TO THE CIVIL ENGINEER FOR REVIEW.**
11. **OBTAIN ENGINEER'S COMMENTS. PROMPTLY MAKE ANY ADJUSTMENTS/REPAIRS NEEDED. PERFORM ADDITIONAL ASBUILT SURVEY OF ANY ADJUSTED AREAS AND SUBMIT ASBUILT SURVEY CAD FILE WITH POINTS TO CIVIL ENGINEER.**
12. **AFTER THE ENGINEER HAS ACCEPTED THE POND ASBUILT SURVEY GRADES, THEN PROMPTLY ESTABLISH PERMANENT GROUND COVER IN THE POND. ESTABLISH A DENSE STAND OF GRASS ON THE TOP OF BERM, ALL BASIN SLOPES ABOVE THE PERMANENT POOL, SPILLWAY, AND EMBANKMENT SLOPES. GRASS MAY BE INSTALLED VIA SEEDING, HYDROSEEDING, OR SOD. INSTALL PERMANENT LINER IN SPILLWAY PER THE SCM PLAN. ANY REMAINING DISTURBED OR EROSIVE AREAS SHALL BE PERMANENTLY STABILIZED WITH GRASS, SOD, AND/OR A SLOPE STABILIZATION BLANKET AS NEEDED. WATER GRASS & PLANTS ONLY AS NEEDED FOR PLANT HEALTH.**
13. **PLANTINGS IN THE VEGETATED SHELF SHOULD BE INSTALLED BY A PROFESSIONAL LANDSCAPER, AND THEY MAY TEMPORARILY ADJUST/LOWER THE POND WATER SURFACE ELEVATION AS NEEDED VIA PUMP UNTIL THE PLANTS ARE MATURELY ESTABLISHED.**
14. **SUBMIT GEOTECHNICAL NCPE CERTIFICATION OF POND BERM COMPACTION, OUTLET PIPE INSTALLATION, ANTI-SEEP COLLAR, AND CUTOFF TRENCH TO CIVIL ENGINEER.**
15. **AFTER POND CONSTRUCTION IS COMPLETE AND STABILIZED, THEN CONTACT ENGINEER TO REQUEST ONSITE INSPECTION, PUNCHLIST, AND FINAL APPROVAL. THE CONTRACTOR SHALL NOT BE RELEASED UNTIL AFTER THE POND IS PE CERTIFIED AND ACCEPTED BY THE COUNTY.**

MAINTENANCE

INSPECTION ACTIVITIES - (FREQUENCY)

WHERE MAINTENANCE REQUIRES DEWATERING, DO SO BY MEANS OF DEWATERING PUMP.

AFTER CONSTRUCTION
INSPECT AFTER SEVERAL STORM EVENTS FOR BANK STABILITY, VEGETATION GROWTH, DRAINAGE SYSTEM FUNCTIONING, AND STRUCTURAL DAMAGE.

SEMI-ANNUAL INSPECTION
INSPECT FOR INVASIVE VEGETATION, DIFFERENTIAL SETTLEMENT, CRACKING; EROSION, LEAKAGE, OR TREE GROWTH ON THE EMBANKMENT; THE CONDITION OF THE RIPRAP IN THE INLET, OUTLET, AND PILOT CHANNELS; SEDIMENT ACCUMULATION IN THE BASIN; CLOGGING OF OUTLET; AND THE VIGOR AND DENSITY OF THE VEGETATION ON THE BASIN SIDE SLOPES AND FLOOR. CORRECT OBSERVED PROBLEMS AS NECESSARY.

NOTE SIGNS OF HYDROCARBON BUILDUP SUCH AS FLOATING OIL ON WATER SURFACE. - INSPECT FOR DAMAGE TO THE EMBANKMENT AND INLET/OUTLET STRUCTURES. REPAIR AS NECESSARY. -MONITOR FOR SEDIMENT ACCUMULATION IN THE FACILITY AND FOREBAY. EXAMINE INLET AND OUTLET DEVICES TO ENSURE THEY ARE FREE OF DEBRIS AND ARE OPERATIONAL.

MAINTENANCE ACTIVITIES - (FREQUENCY)

ONE TIME
- REPLACE WET POND VEGETATION TO MAINTAIN AT LEAST 50% OF SURFACE AREA COVERAGE IN WET POND PLANTS AFTER THE SECOND GROWING SEASON.

AS NEEDED
- REPAIR UNDERCUT AREAS, EROSION TO BANKS, AND BOTTOM AS REQUIRED. WHERE PERMITTED BY THE DEPARTMENT OF FISH AND GAME OR OTHER AGENCY REGULATIONS, STOCK CONSTRUCTED WET PONDS REGULARLY WITH MOSQUITO FISH (GAMBUSIA SPP.) TO ENHANCE NATURAL MOSQUITO AND MIDGE CONTROL.

3 TO 4 TIMES PER YEAR
- CLEAN AND REMOVE DEBRIS FROM INLET AND OUTLET STRUCTURES.
- MOW SIDE SLOPES AND REMOVE GRASS CLIPPINGS. REMOVE LITTER AND DEBRIS FROM BANKS, BASIN BOTTOM, TRASH RACKS, OUTLET STRUCTURES, AND VALVES AS REQUIRED.

ANNUAL (IF NEEDED)
- -SUPPLEMENT WET POND PLANTS IF A SIGNIFICANT PORTION HAVE NOT ESTABLISHED (AT LEAST 50% OF THE SURFACE AREA).
- -REMOVE NUISANCE PLANT SPECIES.
- -CLEAN FOREBAY TO AVOID ACCUMULATION IN MAIN WET POND AREA TO MINIMIZE WHEN THE MAIN WET POND AREA NEEDS TO BE CLEANED.
- -HARVEST PLANT SPECIES IF VEGETATION BECOMES TOO THICK CAUSING FLOW BACKUP AND FLOODING. MORE FREQUENT PLANT HARVESTING MAY BE REQUIRED BY LOCAL VECTOR CONTROL AGENCIES.
- -FERTILIZE NEW VEGETATION ONE TIME ONLY. THE OWNER SHALL NOT FERTILIZE VEGETATION AFTER THE INITIAL OCCURRENCE.
- -MONITOR SEDIMENT ACCUMULATIONS, AND REMOVE SEDIMENT WHEN THE ACCUMULATED SEDIMENT VOLUME EXCEEDS 10-20% OF THE BASIN VOLUME. PLANTS ARE 'CHOKED' WITH SEDIMENT, OR THE WET POND BECOMES EUTROPHIC. IT IS SUGGESTED THAT THE MAIN AREA BE CLEANED ONE HALF AT A TIME WITH AT LEAST ONE GROWING SEASON IN BETWEEN CLEANINGS. THIS WILL HELP TO PRESERVE THE VEGETATION AND ENABLE THE WET POND TO RECOVER MORE QUICKLY FROM THE CLEANING.

PERMANENT SEEDING SPECIFICATIONS

SEEDING MIXTURE

SPECIES	RATE (LB/ACRES)
PREMIUM BERMUDA	60

NURSE PLANTS
BETWEEN APR 15 AND AUG. 15, ADD 10 LB/ACRE GERMAN MILLET OR 15 LB/ACRE SUDAN GRASS PRIOR TO MAY 1 OR AFTER AUG 15, ADD 25 LB/ACRE RYE (GRAIN)

SEEDING DATES

	BEST	POSSIBLE
EARLY SPRING:	FEB. 15-MAR. 20	FEB. 15-APR. 30
FALL:	SEPT. 1-SEPT. 30	SEPT. 1-OCT. 31

SOIL AMENDMENTS
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TEST IS NOT AVAILABLE APPLY 2 TONS/ACRE AGRICULTURAL GRADE LIMESTONE AND 1,000LBS/ACRE OF 10-10-10 FERTILIZER, OR APPLY 3,000-5,000 LB/ACRE SUDANGRASS. PRIOR TO MAY 1 OR AFTER AUG. 15, ADD 25 LB/ACRE RYE (GRASS)

MULCH
APPLY 4,000 LB/ACRE GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DICK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
IF GROWTH IS LESS THAN FULL ADEQUATE, REFERTILIZE THE SECOND YEAR. ACCORDING TO SOIL TESTS OR TOPDRESS WITH 500 LB/ACRE 10-10-10 FERTILIZER. MOW AS NEEDED. RESEED, FERTILIZE AND MULCH DAMAGED AREAS IMMEDIATELY.

AS-BUILT SURVEY:

UPON COMPLETION, CONTRACTOR TO SUBMIT NCRLS SEALED ASBUILT SURVEY OF POND, INCLUDING AUTOCAD POINTS TO OWNER/ENGINEER, INCLUDING BERM, SPILLWAY, SLOPES, MAIN POOL, FOREBAY, PIPES, INVERTS, RISER, RISER TOP ELEV, ORIFICE INVERTS, VEGETATIVE SHELF, ORIFICE DIAMETERS, ETC. TO OWNER/ENGINEER. ALL FEATURES SHALL BE WITHIN +/- 0.2 FT VERTICAL TOLERANCE OF THE DESIGN

POND NOTES

1. TOP OF BERM AND ALL SIDE SLOPES SHALL BE EITHER SODDED OR HYDROSEEDED TO ESTABLISH A DENSE STAND OF NON CLUMPING TURF GRASS
2. NO TREES SHRUBS OR WOODY VEGETATION IS ALLOWED ON THE TOP OF BERM OR SLOPES.
3. NO RIP RAP OR STONE IS ALLOWED IN THE BERM EMBANKMENT.
4. UNLESS DETERMINED OTHERWISE IN WRITTING BY THE CONTRACTORS GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL INSTALL A CLAY LINER IN THE POND UP TO THE ELEVATION NOTED
5. CONTRACTOR TO WATER PLANTINGS AND GRASS AS NEEDED
6. CONTRACTOR SHALL NOT BE RELEASED UNTIL AFTER THE POND HAS BEEN ASBUILT SURVEYED, PE CERTIFIED AND ACCEPTED BY NDENR.

STORMWATER WET POND PLANTING SPECIFICATIONS

1. ALL HERBACEOUS PLANTS WITHIN THE WET POND PROPER SHALL BE INSTALLED BETWEEN MARCH 15 AND JULY 31.
2. UNLESS OTHERWISE DESIGNATED, PLANTS SHOULD BE INSTALLED AS LARGE DRIFTS (I.E., MASSES OF A SINGLE SPECIES) WITHIN THEIR RESPECTIVE PLANTING AREAS.
3. INSTALL A SLOW RELEASE FERTILIZER TABLET NEXT TO EACH PLANT WITHIN THE WET POND PROPER. FOR HERBACEOUS SPECIES USE AG SAFE AQUATIC-TABS 20-10-5, 90 DAY CONTINUOUS FEEDING, 5 GRAMS, OR EQUIVALENT.
4. ALL PLANTS SHALL BE DIRECTLY DESCENDED FROM INDIVIDUALS GROWING WILD WITHIN 200 MILES OF THE PROJECT SITE. IF SUITABLE STOCK CANNOT BE OBTAINED, PLANTS OF OTHER GENETIC PROVENANCES MAY BE UTILIZED WITH THE APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
5. PLANT MATERIAL SHOULD CONFORM TO AMERICAN STANDARD NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. (SEE PLANT LIST AND NOTES 6, 7, 8).
6. ALL PLANT MATERIAL TO BE CONTAINER GROWN PLANTS OF AT LEAST 4.0 CUBIC INCHES CAPACITY.
7. A MINIMUM OF THREE(3) DIFFERENT SPECIES.

VEGETATIVE SHELF PLANTS:	(50 PLANTS PER 200 SF)
TOTAL:	1352 SF = 338 PLANTS

STORMWATER WET POND PLANTING TABLE

BOTANICAL NAME	COMMON NAME	QUANTITY
ASCLEPIAS INCARNATA	SWAMP MILKWEED	59
EUPATORIADELPHUS DUBIUS	DWARF JOE PYE WEED	59
CAREX TENERA	QUILL SEDGE	59
HIBISCUS LAEVIS	SCARLET ROSE MALLOW	59
RHYNCHOSPORA COLORATA	STARRUSH WHITETOP	59
LOBELIA ELONGATA	LONGLEAF LOBELIA	44

MELLOW MARSH FARMS (919) 742 1200

EMBANKMENT COMPACTION

1. ALL FILL MATERIAL FOR THE EMBANKMENT SHOULD BE PLACED IN LAYERS (OR LIFTS) NO GREATER THAN 6" THICK.
2. THE LARGEST SIZE PARTICLE SHOULD NOT BE GREATER THAN ⅔rd THE HEIGHT OF THE LIFT THAT IS 2".
3. EACH LAYER SHOULD BE THOROUGHLY COMPACTED BEFORE THE NEXT LAYER IS PLACED.
4. THE COMPACTION EFFORT ACHIEVED SHOULD BE ON AVERAGE 98% STANDARD PROCTOR ASTM D698.
5. THE MINIMUM COMPACTION EFFORT SHOULD BE 95% STANDARD PROCTOR ASTM D698.
6. THE MATERIAL FORMING THE EMBANKMENT SHOULD BE PLACED WITH SUFFICIENT MOISTURE TO ENSURE PROPER COMPACTION. THE MOISTURE CONTENT SHOULD BE IN THE RANGE OF -1% TO +3% OF OPTIMUM MOISTURE CONTENT (OMC).
7. BEFORE EACH ADDITIONAL 6" LIFT IS ADDED TO THE EMBANKMENT, THE PRECEDING LIFT SHOULD BE SCARIFIED TO ENSURE THAT THE TWO LIFTS ARE PROPERLY JOINED.
8. A WHEELED SCRAPER OR TRUCK SHOULD BE USED FOR PLACING THE CLAY ON THE DAM SITE. THE CLAY SHOULD THEN BE SPREAD BY THE USE OF THE BLADE ON A TAMPER FOOT ROLLER FROM A BULLDOZER TOWING A TAMPER FOOT ROLLER (SHEEPSFOOT ROLLER).

NOTE

THERE ARE NO EXISTING ONSITE SURFACE WATERS, WETLANDS, PROTECTED VEGETATED SETBACKS, NOR PROTECTED RIPARIAN BUFFERS ON THIS PROPERTY.

BASIN DEWATERING DURING CONSTRUCTION:

THE CONTRACTOR SHALL ARRANGE FOR THE GEOTECHNICAL ENGINEER TO PROVIDE FIELD GUIDANCE ON POND DEWATERING MEASURES DURING THE POND GRADING OPERATION.

SLOPE STABILITY:

AFTER THE POND HAS BEEN EXCAVATED, THEN THE CONTRACTOR SHALL ARRANGE FOR THE GEOTECHNICAL ENGINEER TO VISIT THE SITE TO EVALUATE THE EARTHEN SIDESLOPES STABILITY OF THE POND'S NATIVE SOILS. IF THE SLOPES ARE UNSTABLE, THEN THE CONTRACTOR SHALL UNDERCUT AND REMOVE NATIVE SOIL, AND IMPORT SUITABLE, STABLE CLAY SOILS FROM OFFSITE TO GRADE & COMPACT STABLE POND SIDESLOPES UNDER THE GEOTECHNICAL ENGINEER'S DIRECTION.

OPTIONAL SAFETY FENCE:

THE CONTRACTOR SHALL ASK THE OWNER IF THEY WANT A SAFETY FENCE CONSTRUCTED AROUND THE POND PERIMETER. IF YES, THEN THE CONTRACTOR SHALL CONSTRUCT THE SAFETY FENCE AROUND THE UPPER PERIMETER OF THE POND AND TOP OF BERM. THE FENCE MAY BE 42" HIGH GREEN OR BLACK VINYL COATED CHAIN LINK FENCE. 12' WIDE GATES FOR MAINTENANCE SHALL BE INSTALLED ADJACENT TO THE FOREBAY AND ANOTHER NEAR THE OUTLET CONTROL STRUCTURE.

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Raleigh, NC 27609
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 032410 REGISTERED
Preliminary
DO NOT USE FOR CONSTRUCTION

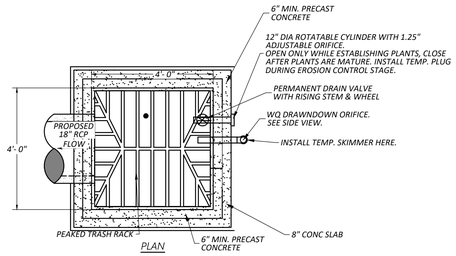
ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
CUR	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

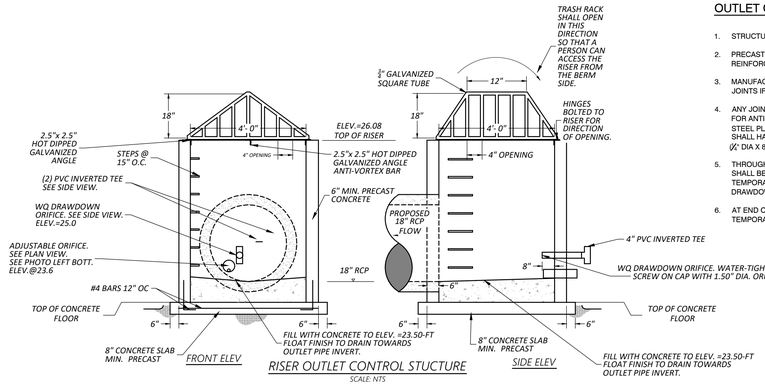
STORMWATER CONTROL NOTES

DESIGNED BY:	BR
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C6.11



PLAN

ADJUSTABLE ORIFICE

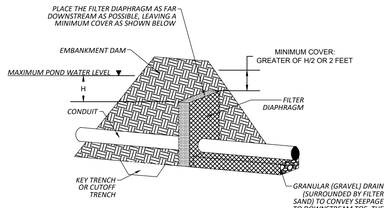


RISER OUTLET CONTROL STUCTURE

SCALE: NTS

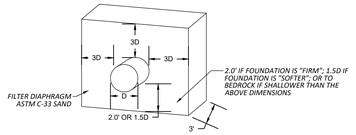
OUTLET CONTROL STRUCTURE NOTES

1. STRUCTURE SHALL BE PRECAST CONCRETE
2. PRECASTER SHALL DESIGN AND FURNISH ALL STEEL REINFORCING, WALL THICKNESS AND HARDWARE.
3. MANUFACTURE ENTIRE CONCRETE AS ONE SECTION WITH NO JOINTS IF PRACTICAL.
4. ANY JOINTS SHALL BE WATER TIGHT AND BE CONSTRUCTED FOR ANTI-FLOTATION. THEY SHALL HAVE (4) GALVANIZED STEEL PLATES 12" X 12" X $\frac{1}{4}$"; ONE PER SIDE. EACH PLATE SHALL HAVE (4) GALVANIZED STEEL BOLTS ($\frac{5}{8}$" DIA X 8" L MIN), FOR ANTI-FLOTATION.
5. THROUGHOUT GRADING OPERATION, TEMPORARY SKIMMER SHALL BE IN PLACE AND DRAIN VALVE OPEN. INSTALL TEMPORARY PLUG IN DETENTION DRAWDOWN AND WQ DRAWDOWN.
6. AT END OF PROJECT, AFTER SITE IS STABLE, REMOVED TEMPORARY PLUGS AND SKIMMER AND CLOSE VALVE.



SAND FILTER DIAPHRAGM

NOT TO SCALE



SAND FILTER DIAPHRAGM

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Preliminary
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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

STORMWATER CONTROL DETAILS

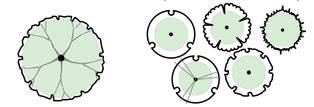
DESIGNED BY:	###
DRAWN BY:	###
CHECKED BY:	###
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C6.21

Do Not Use for Construction - PRELIMINARY

INV. 5.89' (W)
INV. 5.51' (E-OUT)
EX. 6" PVC
EX. 8" PVC
EX. MHSS #3
RIM: 10.94
INV. 4.50' (NW)
INV. 4.40' (E-OUT)
EX. 10" WATER MAIN
MAPLE PARKWAY
50' R/W (D.B. M PG 51)
CPNAIL
TBM #6091
20' STREET SETBACK
EX. 10" WATER MAIN
N/F
CURRITUCK COUNTY
D.B. 1062 PG. 356
BOOK M PG. 97
PIN: 8977-74-3776
PARCEL ID#: 005200000250000
ZONING: HI
MATCHLINE - SEE SHEET L1.11
MATCHLINE - SEE SHEET L1.12
COLLEGE WAY
60' R/W (D.B. M PG 51)
EX. 10" WATER MAIN
TBM #6090
SITE LANDSCAPING SHRUBS
SOD AREA (TYP.)
PERIMETER SHRUBS
60' CANOPY TREE COVERAGE FOR ALL PARKING SPACES (TYP.)
EXISTING 404 WETLANDS
EX. 10" WATER MAIN
EX. 8" PVC
EX. 6" PVC
EX. 8" PVC

NOTE: TREES SHOWN WITH COLOR APPLIED TO HERITAGE TREE REPLACEMENT REQUIREMENTS:

LIVE OAK: OAK (INCL. ALL OTHER SPP.):



EX. MHSS #2
RIM: 10.95
INV. 5.14' (W)
INV. 7.55' (S)
INV. 7.25' (NE)
INV. 5.10' (SE-OUT)

EX. MHSS #3
RIM: 10.94
INV. 4.50' (NW)
INV. 4.40' (E-OUT)

TBM #6091

MAPLE PARKWAY
50' R/W (P.B. N PG 51)

20' STREET SETBACK

60' CANOPY TREE COVERAGE FOR ALL PARKING SPACES (TYP.)

GRASS AREA (TYP.)

SOD AREA (TYP.)

INFIELD MIXTURE

CONC. WALK

QV 1	384 SF / 389 SF
QR 5	529 SF / 361 SF
IV 5	382 SF / 466 SF
IV 3	431 SF / 426 SF
TD 1	460 SF
UP 2	
QB 1	
QP 1	
QR 1	
QP 2	
IV 8	
TD 2	
QB 2	

MATCHLINE
SEE SHEET L1.12

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30' 0 15' 30'
SCALE 1 inch = 30 ft

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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

ENLARGED LANDSCAPE PLAN - NE

DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	L1.11

NOTE: TREES SHOWN WITH COLOR APPLIED TO HERITAGE TREE REPLACEMENT REQUIREMENTS:
LIVE OAK: OAK (INCL. ALL OTHER SPP.):

SEE SHEET L1.11
MATCHLINE

COLLEGE WAY
60' R/W (P.B. N 10, 51)

SOD AREA (TYP.)
INFIELD MIXTURE
OV 3
QP 1
368 SF
418 SF
UP 1
60' CANOPY TREE COVERAGE FOR ALL PARKING SPACES (TYP.)
QB 1
425 SF
432 SF
TD 2
GRASS AREA (TYP.)
UP 2
QP 2
TD 3
411 SF
425 SF
405 SF
QR 1
IV 24
QR 3
QV 1
QV 2
20' STREET SETBACK
CONC. WALK
EIR
N 39°54'E 184.80'
N 89°37'04" W 508.42'
S 77°21'0" W 180.64'

N/F
CRAWFORD HOLDINGS, INC.
D.B. 1773 PG. 131
PIN: 8977-73-5737
PARCEL ID#: 005200000240000
ZONING: GB

U.S. HWY. NO. 158
(100' PUBLIC R/W - BOOK K PG. 150)

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SCALE 1 inch = 30 ft (30' 0 15' 30')

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riversandassociates.com
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353 E. Six Forks Road
Raleigh, NC 27609
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7/1/25

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

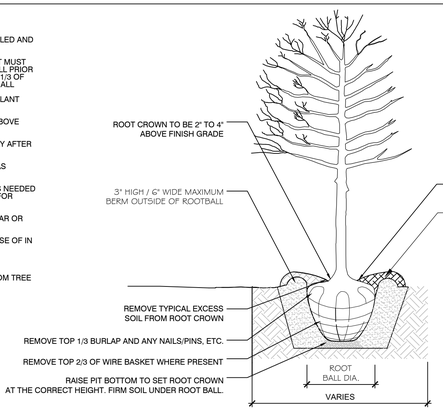
ENLARGED LANDSCAPE PLAN - SW

DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	L1.12

Do Not Use for Construction - PRELIMINARY

NOTES:

1. ALL TREES ARE TO BE NURSERY GROWN, BALLED AND BURLAP (B&B) OR CONTAINER GROWN.
2. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM THE ROOT BALL. REMOVE ALL SYNTHETIC MATERIALS: BURLAP, STRAPPING CORDAGE, ETC. PRIOR TO BACKFILLING ALL PLANT MATERIALS.
3. INSTALL TOP OF PLANT BALL TO BE 2" TO 4" ABOVE EXISTING GRADE.
4. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
5. SET TREE IN VERTICAL POSITION & STAKE IF/AS NEEDED
6. SUBMIT PREFERRED STAKING METHODS IF/AS NEEDED AND MATERIALS TO LANDSCAPE ARCHITECT FOR APPROVAL
7. ALL STAKING TO BE REMOVED AFTER ONE YEAR OR GROWING SEASON
8. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
9. RESEED UNMULCHED, DISTURBED AREAS.
10. MULCH AREA TO BE A MINIMUM 2' RADIUS FROM TREE TRUNK.



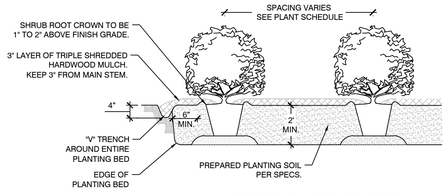
ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004)

FOR EXAMPLE: CALIPER	HEIGHT (RANGE)	MAX. HEIGHT	MIN. ROOT BALL DIA.	MIN. ROOT BALL DEPTH
2"	12-14'	16'	24"	18"
3"	14-16'	18'	32"	21"
4"	16-18'	22'	42"	25"

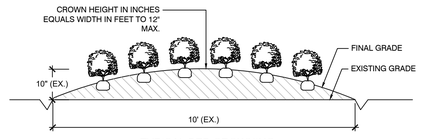
TREE PLANTING
SECTION — NTS

NOTES:

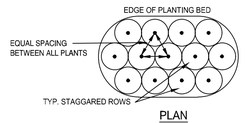
1. SCARIFY ROOT MASS OF CONTAINERIZED PLANT MATERIAL.
2. INSTALL CONTAINERIZED PLANTS 2" - 4" ABOVE FINISHED GRADE.
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
5. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.



TYPICAL PLANTING BED DETAIL

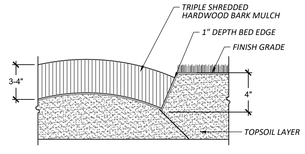


TYPICAL BED CROWNING



PLAN

SHRUB PLANTING BED
SECTION — NTS



BED TRENCHING
SECTION — NTS

PLANTING NOTES:

1. ALL PLANTINGS SHALL COMPLY WITH CURRENT LOCAL ORDINANCES AND GUIDELINES.
2. THIS PLAN IS FOR PLANTING LOCATIONS ONLY AND ALL PLANT MATERIAL SHALL BE SPACED AND LOCATED PER SCHEDULE. HOWEVER, CONTRACTOR TO SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITIES. IF FOUND CONDITIONS VARY FROM THIS PLAN, CONTRACTOR SHALL CONTACT OWNER AND LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO DO SO WILL RESULT IN CONTRACTOR'S LIABILITY TO REPLACE PLANT MATERIALS.
3. REFER TO PLANTING DETAILS FOR ADDITIONAL PLANTING INFORMATION.
4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PLANT WATERING AND MAINTENANCE, INCLUDING SHRUBS AND GROUNDCOVER, AND SHALL MAINTAIN AREA IN A WEED AND DEBRIS FREE CONDITION, THROUGHOUT GUARANTEE PERIOD.
5. CONTRACTOR TO VERIFY PLANT LIST TOTALS WITH QUANTITIES SHOWN ON PLAN.
6. ALL SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE JUDGED. FAILURE TO MEET MINIMUM SIZE ON ANY PLANT WILL RESULT IN REJECTION OF THAT PLANT.
7. PLANTING SIZE DETERMINATION:
   7.1. TREES: HEIGHT SHALL BE MEASURED FROM THE CROWN OF THE ROOT BALL TO THE TOP OF MATURE GROWTH. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH. SINGLE TRUNK TREES SHALL BE FREE OF "V" CROTCHES THAT COULD BE POINTS OF WEAK LIMB STRUCTURE OR DISEASE INFESTATION.
   7.2. ALL PLANTS SHALL BE FRESHLY DUG OR IN GROW POTS, SOUND, HEALTHY, VIGOROUS, WELL BRANCHED, FREE OF DISEASE, INSECT EGGS, AND LARVAE, AND SHALL BE WELL ROOTED.
8. FINISHED PLANTING BEDS SHALL BE GRADED SO AS TO NOT IMPEDE DRAINAGE AWAY FROM BUILDINGS. IF SIGNIFICANT RELOCATIONS ARE REQUIRED, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH RELOCATIONS KNOWN TO THE OWNER AND LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY FOR PLANT MATERIALS AND STORMWATER DAMAGE.
9. FIELD LOCATE AND VERIFY UNDERGROUND UTILITIES LOCATIONS PRIOR TO PLANTING. FINAL TREE LOCATIONS TO BE FIELD ADJUSTED TO AVOID CONFLICTS WITH UTILITIES, LIGHTING AND DRIVEWAY LOCATIONS WHERE POSSIBLE. CONTACT LANDSCAPE ARCHITECT FOR A COORDINATED SOLUTION FOR ANY UTILITY CONFLICTS. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ANY AND ALL PUBLIC OR PRIVATE UTILITIES.
10. TREES SHALL BE STAKED WITH AN AT GRADE TREE STAKING SYSTEM. STAKING MUST BE REMOVED AS SOON AS POSSIBLE OR WITHIN ONE (1) YEAR OF PLANTING. MULCH SHALL BE APPLIED IN AN EVEN THREE INCH (3") TO TO FOUR INCH (4") LAYER AROUND THE TREE PIT IN ACCORDANCE WITH ACCEPTED PRACTICES IN THE LANDSCAPE INDUSTRY.
11. CONTRACTOR SHALL NOT PLACE MULCH IN CONTACT WITH THE TRUNKS OF TREES OR SHRUBS.
12. ALL TREE PITS, SHRUB BEDS AND PREPARED PLANTING BEDS ARE TO BE COMPLETELY EXCAVATED IN ACCORDANCE WITH THE PLANTING DETAILS.
13. THE ROOT CROWN SHALL BE 1 INCH (1") TO 2 INCHES (2") ABOVE FINISHED GRADE (AFTER SETTLING) FOR SHRUBS AND TWO INCHES (2") TO FOUR INCHES (4") ABOVE FINISHED GRADE (AFTER SETTLING) FOR TREES.
14. ALL SUBSTITUTIONS OF PLANT MATERIAL ARE TO BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER PRIOR TO INSTALLATION. FAILURE TO OBTAIN SUBSTITUTION APPROVAL IN WRITING MAY RESULT IN LIABILITY TO THE CONTRACTOR.
15. DEAD PLANTS ARE TO BE REMOVED FROM THE JOB BY THE CONTRACTOR WEEKLY. CONTRACTOR SHALL MAINTAIN AN UPDATED, COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AND THE LANDSCAPE ARCHITECT AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
16. TOPSOIL REQUIRED FOR SOIL MIXES AND SPECIAL SEEDING AREAS SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR MUST LOAD, HAUL, MIX, AND SPREAD ALL TOPSOIL AND OTHER SOIL ADDITIVES AS REQUIRED.
17. THE PROPERTY OWNER AND/OR LESSEE SHALL, UPON COMPLETION OF THE GUARANTEE PERIOD AND FINAL ACCEPTANCE OF THE LANDSCAPE MATERIALS, MAINTAIN ALL LANDSCAPE MATERIALS AND LANDSCAPE AREAS IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, MOWING, FERTILIZING, TREATING PESTS, MULCHING, PRUNING, REMOVAL AND REPLACEMENT OF DEAD OR DISEASED TREES AND SHRUBS. MAINTENANCE SHALL BE PERFORMED ON A REGULAR BASIS IN ORDER TO MAINTAIN PLANT VIGOR AND STABILITY AND TO PRESENT A NEAT AND WELL-KEPT APPEARANCE AT ALL TIMES.
18. CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE IMPROVEMENTS, INCLUDING SEEDING, AS REQUIRED BY THE SPECIFICATIONS. CONTRACTOR MUST CONTACT THE OWNER AND THE LANDSCAPE ARCHITECT AT LEAST 10 WORKING DAYS IN ADVANCE TO SCHEDULE ACCEPTANCE INSPECTION(S). CONTRACTOR MUST REPLACE ALL DEAD OR UNACCEPTABLE PLANTS DURING THE FOLLOWING RECOMMENDED PLANTING SEASON.
19. ALL TREES AND SHRUBS SHALL MEET THE NORMAL REQUIREMENTS FOR THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN (AAN) OR AMERICAN HORT, ANSI Z60.1.
20. MULCH SHALL BE FREE OF DEBRIS AND WOOD CHIPS. IT SHALL CONSIST OF AGED TRIPLE-SHREDDED HARDWOOD MULCH, FREE OF EXCESS TANNIC ACID OR OTHER MULCH AS SPECIFIED ON THE PLANS. SAMPLES OF MULCH SHALL BE PROVIDED FOR THE THE LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO DELIVERING THE MULCH. THE OWNER RESERVES THE RIGHT TO REJECT ANY MULCH WHICH IS CONSIDERED TO BE UNSUITABLE. ALL MULCHES SHALL BE FREE OF ANY FOREIGN MATERIALS, PIECES LARGER THAN 6 INCHES, AND/OR GREEN WOOD.
21. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM THE ROOT BALL. REMOVE ALL SYNTHETIC MATERIALS: BURLAP, STRAPPING CORDAGE, ETC. PRIOR TO BACKFILLING ALL PLANT MATERIALS.
22. NO PLANTING IDENTIFIED AS REACHING A MATURE HEIGHT OF MORE THAN TWENTY FEET (20') SHALL BE PLACED WITHIN A TRANSMISSION POWER LINE RIGHT-OF-WAY OR WITHIN TEN FEET (10') OF AN OVERHEAD UTILITY LINE.
23. TREES WHICH OVERHANG THE PEDESTRIAN CIRCULATION ROUTES AT THE STREETS, SIDEWALKS OR WITHIN OPEN SPACE AREAS SHALL NOT EXTEND GREATER THAN FOUR INCHES INTO THE CIRCULATION ROUTE AT A HEIGHT LESS THAN 80 INCHES ABOVE THE ADJACENT GRADE. ALL TREES SHALL BE LIMBED TO PROVIDE 80 INCHES OF CLEARANCE AT WALKWAYS TO MEET A.D.A AND ANSI Z60.1 REQUIREMENTS.

LANDSCAPE NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE, AND MATERIAL OF EXISTING SITE AND VICINITY FEATURES AND UTILITIES PRIOR TO BEGINNING DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY DISCREPANCIES THAT ARE FOUND BETWEEN THE EXISTING FIELD CONDITIONS AND THE SITE PLANS OR CONSTRUCTION DRAWINGS, WHENEVER THEY ARE FOUND, DURING ALL PHASES OF SITE WORK.
2. THE PRUNING OF SCREENING SHRUBS SHALL ALLOW FOR LATERAL GROWTH OF BRANCHES SO AS TO FORM A HEDGE.
3. ALL LANDSCAPE ISLANDS, BEDS AND LAWNS SHALL BE GRADED FOR POSITIVE DRAINAGE WITH NO LOW SPOTS ALLOWING WATER TO BE TRAPPED.
4. CONTRACTOR SHALL PLANT TREES AND SHRUBS 5 FEET FROM BACK OF CURB WHEN PLANTED PERPENDICULAR FROM PARKING SPACES.
5. WHEEL STOPS ARE REQUIRED IF LANDSCAPING CANNOT BE SET BACK 5 FEET.
6. CONTRACTOR SHALL INSTALL ALL SHRUBS IN MULCHED BEDS.
7. CONTRACTOR SHALL INSTALL ALL TREES IN MINIMUM 4'-6" DIA. MULCHED BEDS.
8. WHERE TREES AND SHRUBS ARE LOCATED TOGETHER IN LANDSCAPE BUFFERS, THE CONTRACTOR SHALL MULCH THE FULL WIDTH AND LENGTH OF THE BUFFER.
9. ALL UN-MULCHED AREAS OF THE SITE SHALL BE SEEDED WITH LAWN GRASS. GRASS SEED SELECTION SHALL BE SUBMITTED TO AND APPROVED BY THE LANDSCAPE ARCHITECT, PRIOR TO PURCHASE AND INSTALLATION.

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Raleigh, NC 27609
919.594.1626

Preliminary NOT FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

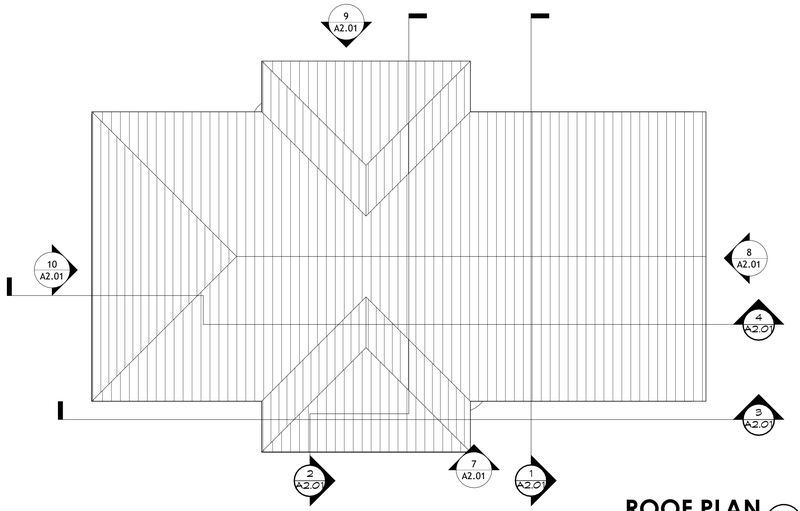
CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

LANDSCAPE NOTES & DETAILS

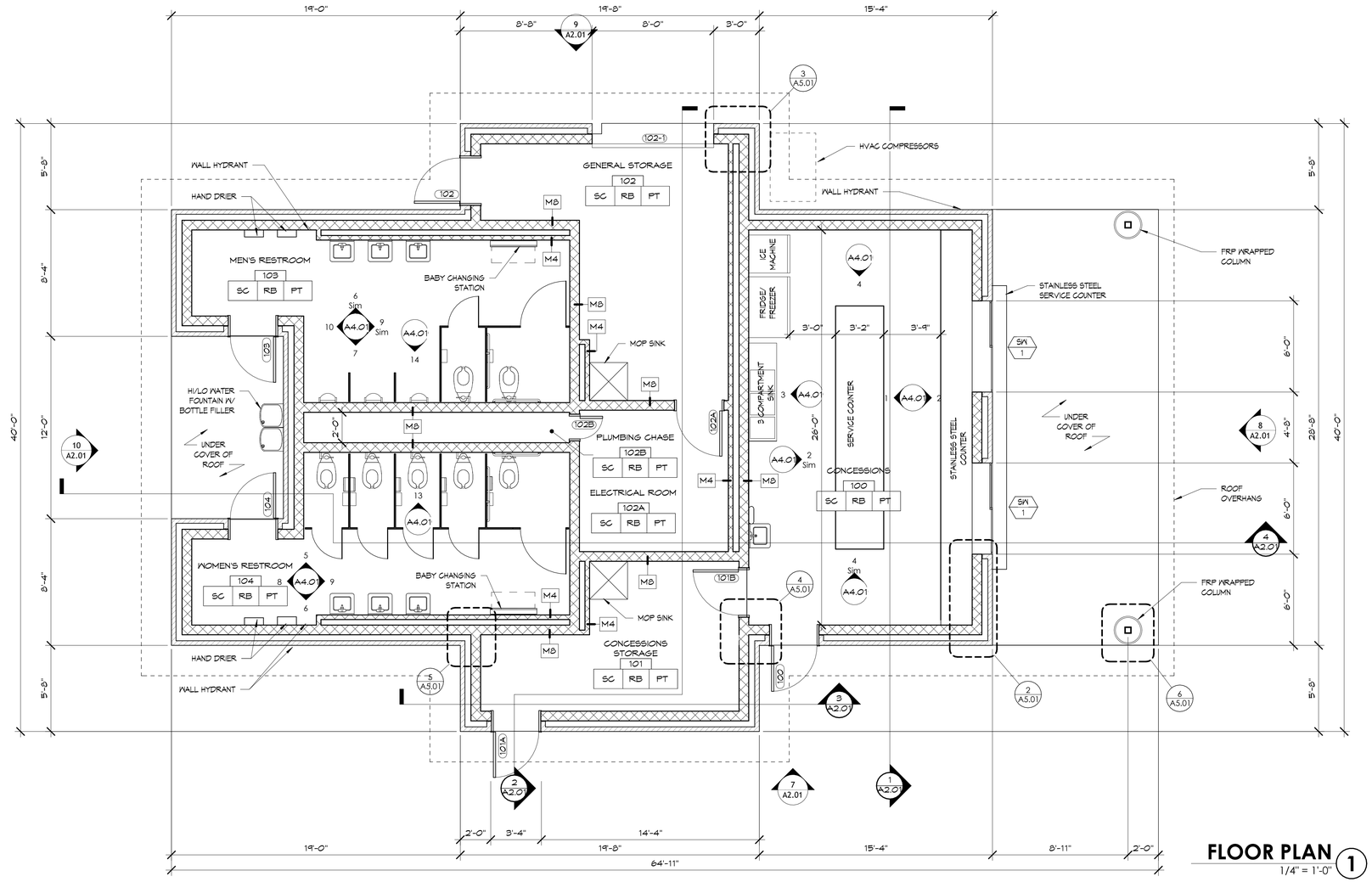
DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	L2.02

G:\WORKSPACE_GIS FILES_CAD_PLOTS\2022109\2022109_CURRITUCK COUNTRY PARK PHASE III\DRAWINGS\L1.01 LANDSCAPE NOTES & DETAILS - 8:30:2025 4:54:30 PM - SBF

FINISH SHCEDULE						
	TAG	FINISH TYPE	MANUFACTURER	STYLE/COLOR	ALTERNATE MANUFACTURER	REMARKS
FLOOR	EP	EPOXY1	TRI SOLUTIONS		STONHARD, LATICRETE OR EQUIVILANT	
WALL	PT	PAINT	SHERWIN WILLIAMS		BENJAMINE MOORE, VALSPAR OR EQUIVILANT	
BASE	RB	RUBBER BASE	JOHNSONITE		ROPPE, MOHAWK OR EQUIVILANT	INSTALLED THROUGH SCOPE AREA, UNO
CASEWORK	PLAM	PLASTIC LAMINATE	FORMICA		WILSONT ART, PANOLAM OR EQUIVILANT	
	SST	STAINLESS STEEL SURFACE	CUSTOM FABRICATION			
CEILING	ACT	ACOUSTICAL CEILING TILE	USG			ARMSTRONG, CERTAINTEED OR EQUIVILANT
OTHER	TS	TRANSITION STRIP	HANSTONE			ADA COMPLIANT



ROOF PLAN 6
1/8" = 1'-0"



FLOOR PLAN 1
1/4" = 1'-0"

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SHORTCUT ROAD
BARCO, CURRITUCK COUNTY, NC 27971

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REVISIONS:

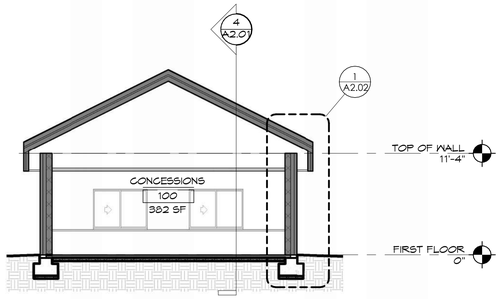
#	DESC:	DATE

DRAWN BY: DJH
PROJECT #: 22008
ISSUE DATE: 05/16/2025

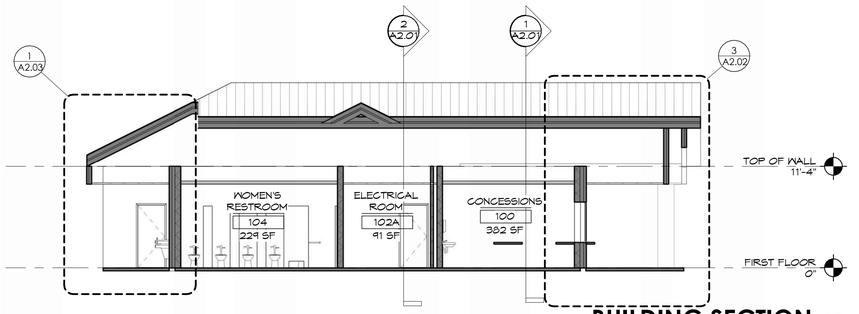
PHASE:
90% CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
FIRST FLOOR PLAN & ROOF PLAN

A1.01



BUILDING SECTION 1
1/8" = 1'-0"



BUILDING SECTION 4
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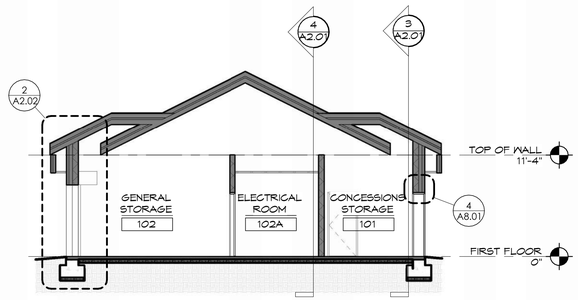
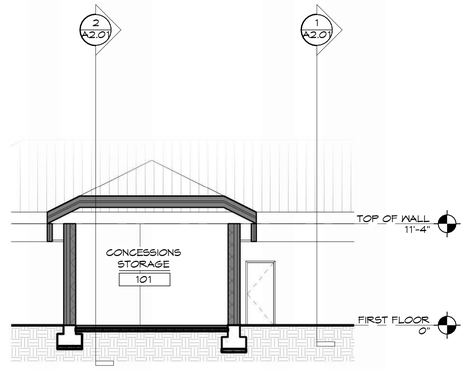
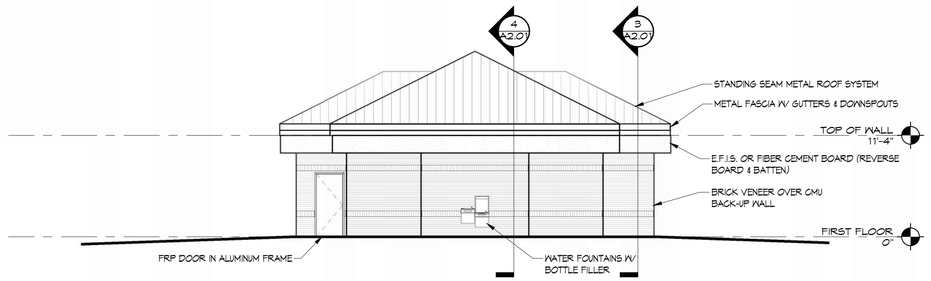


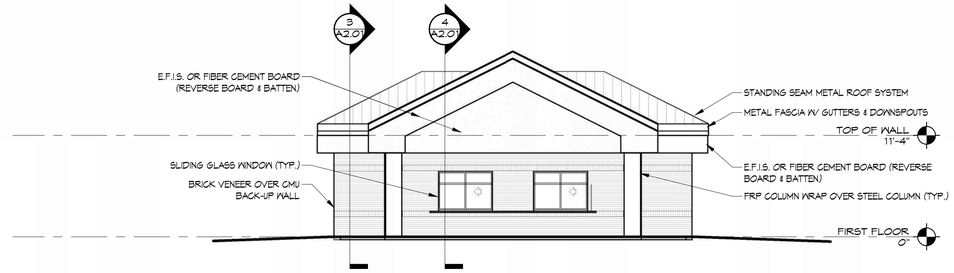
BUILDING SECTION 2
1/8" = 1'-0"



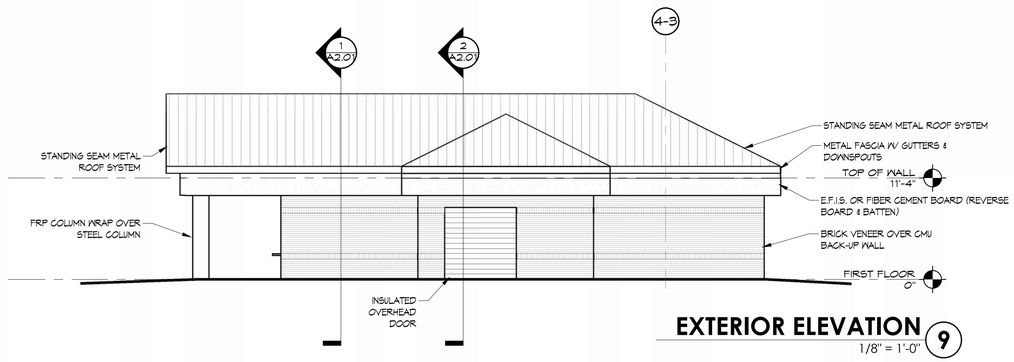
BUILDING SECTION 3
1/8" = 1'-0"



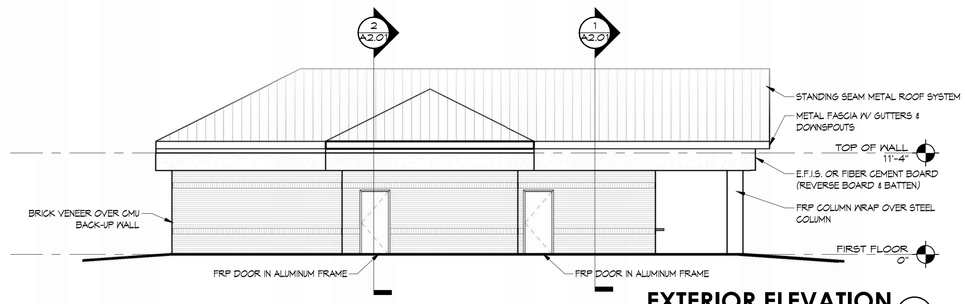
EXTERIOR ELEVATION 10
1/8" = 1'-0"



EXTERIOR ELEVATION 8
1/8" = 1'-0"



EXTERIOR ELEVATION 9
1/8" = 1'-0"



EXTERIOR ELEVATION 7
1/8" = 1'-0"

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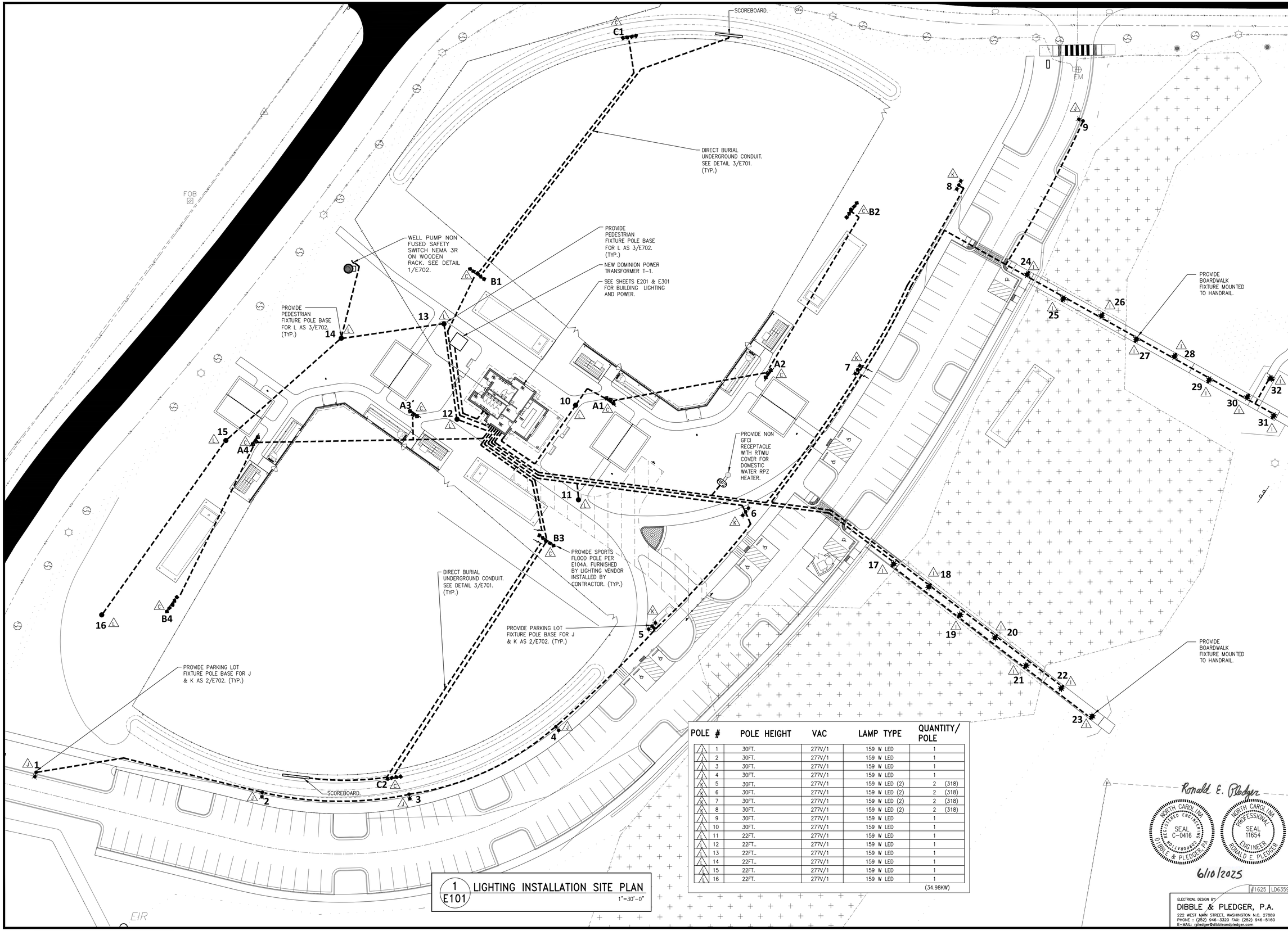
REVISIONS:

#	DESC:	DATE

DRAWN BY: DJH
PROJECT #: 22008
ISSUE DATE: 05/16/2025
PHASE:
90% CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
EXTERIOR ELEVATIONS & BUILDING SECTIONS

A2.01



POLE #		POLE HEIGHT	VAC	LAMP TYPE	QUANTITY/ POLE
J	1	30FT.	277V/1	159 W LED	1
J	2	30FT.	277V/1	159 W LED	1
J	3	30FT.	277V/1	159 W LED	1
J	4	30FT.	277V/1	159 W LED	1
K	5	30FT.	277V/1	159 W LED (2)	2 (318)
K	6	30FT.	277V/1	159 W LED (2)	2 (318)
K	7	30FT.	277V/1	159 W LED (2)	2 (318)
K	8	30FT.	277V/1	159 W LED (2)	2 (318)
J	9	30FT.	277V/1	159 W LED	1
J	10	30FT.	277V/1	159 W LED	1
J	11	22FT.	277V/1	159 W LED	1
J	12	22FT..	277V/1	159 W LED	1
J	13	22FT..	277V/1	159 W LED	1
J	14	22FT..	277V/1	159 W LED	1
J	15	22FT.	277V/1	159 W LED	1
J	16	22FT.	277V/1	159 W LED	1
					(34.98KW)

1 E101 LIGHTING INSTALLATION SITE PLAN
1"=30'-0"

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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	60% DD SET	1/14/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

LIGHTING & POWER SITE PLANS BALL FIELDS & PARKING LOT

Ronald E. Pledger

NORTH CAROLINA REGISTERED ENGINEERING CORPORATION SEAL C-0416 DIBBLE & PLEDGER, P.A.

NORTH CAROLINA PROFESSIONAL SEAL 11654 ENGINEER RONALD E PLEDGER

6/10/2025

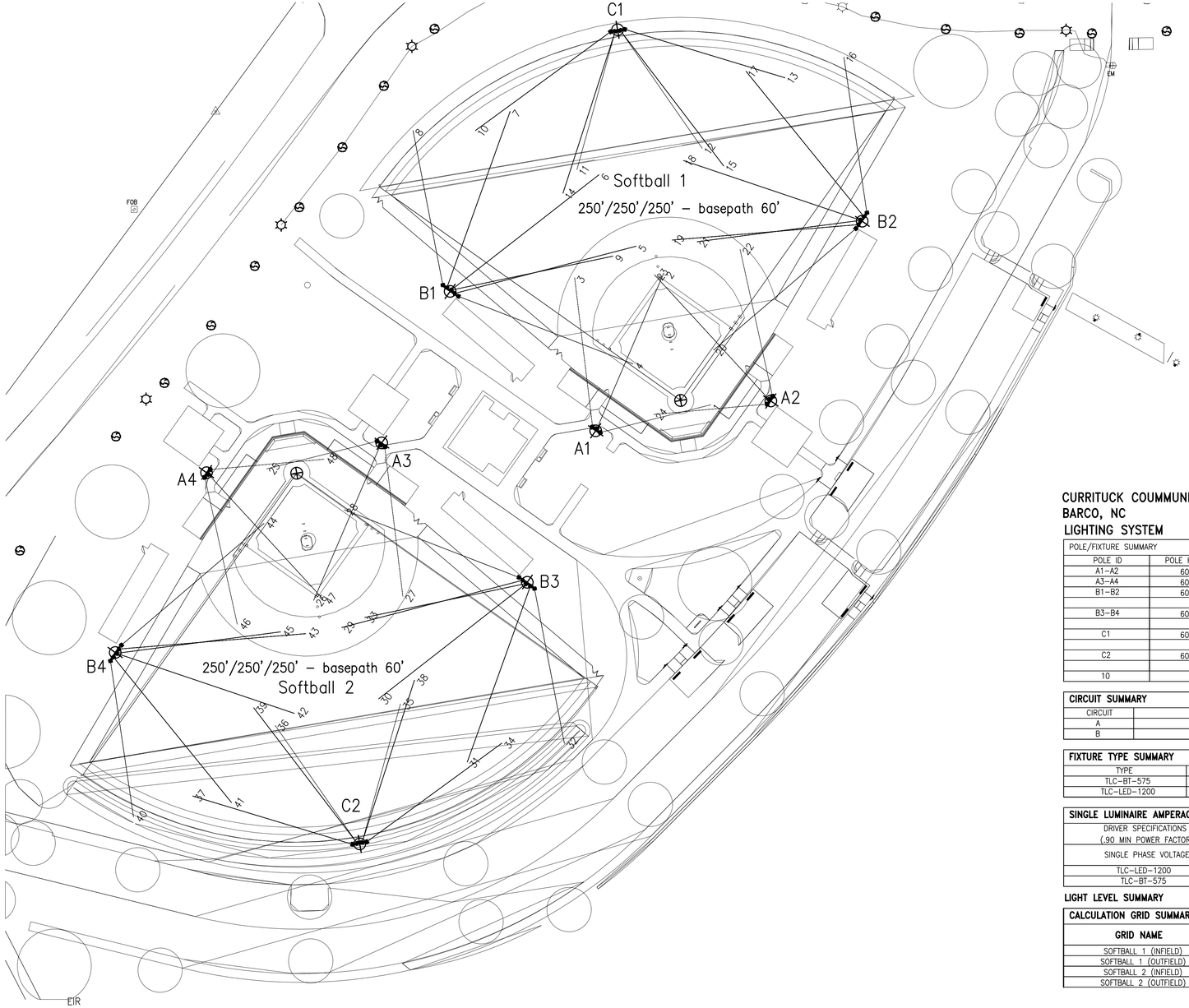
DESIGNED BY:	REP
DRAWN BY:	WAW
CHECKED BY:	REP
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN

#1625 LD6359

ELECTRICAL DESIGN BY:
DIBBLE & PLEDGER, P.A.
222 WEST MAIN STREET, WASHINGTON N.C. 27889
PHONE : (252) 946-3320 FAX: (252) 946-5160
E-MAIL: rpledger@dibbleandpledger.com

SHEET No.

E101



1 E102 LIGHTING POINT BY POINT SITE PLAN (FIELD #1 & FIELD #2) 1"=40'-0"

EQUIPMENT LAYOUT

INCLUDES:
- SOFTBALL 1
- SOFTBALL 2

ELECTRICAL SYSTEM REQUIREMENTS: REFER TO AMPERAGE DRAW CHART AND/OR THE "MUSCO CONTROL SYSTEM SUMMARY" FOR ELECTRICAL SIZING.

INSTALLATION REQUIREMENTS: RESULTS ASSUME ± 3% NOMINAL VOLTAGE AT LINE SIDE OF THE DRIVER AND STRUCTURES LOCATED WITHIN 3 FEET (1M) OF DESIGN LOCATIONS.

EQUIPMENT LIST FOR AREAS SHOWN

POLE				LUMINAIRES		
QTY	LOCAT.	SIZE	GRADE ELEV.	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/ POLE
4	A1–A4	60'	–	60'	TLC–LED–1200	3
4	B1–B4	60'	-	60' 15.5'	TLC–LED–1200 TLC–BT–575	5 1
2	C1–C2	60'	-	60' 15.5'	TLC–LED–1200 TLC–BT–575	4 2
10	Totals					48

SINGLE LUMINAIRE AMPERAGE DRAW CHART

DRIVER SPECIFICATIONS (.90 MIN POWER FACTOR)	LINE AMPERAGE PER LUMINAIRE (MAX DRAW)						
SINGLE PHASE VOLTAGE	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC–LED–1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC–BT–575	3.3	3.2	2.9	2.5	2.0	1.8	1.5

CURRITUCK COUMMUNITY PARK
BARCO, NC
LIGHTING SYSTEM

POLE/FIXTURE SUMMARY

POLE ID	POLE HEIGHT	MTG HEIGHT	Fixture Qty	LUMINAIRE TYPE	LOAD	CIRCUIT
A1–A2	60'	60'	3	TLC–LED–1200	3.51 kW	A
A3–A4	60'	60'	3	TLC–LED–1200	3.51 kW	B
B1–B2	60'	60'	5	TLC–LED–1200	5.85 kW	A
		16'	1	TLC–BT–575	0.57 kW	A
B3–B4	60'	60'	5	TLC–LED–1200	5.85 kW	B
		16'	1	TLC–BT–575	0.57 kW	B
C1	60'	60'	4	TLC–LED–1200	4.68 kW	A
		16'	2	TLC–BT–575	1.15 kW	A
C2	60'	60'	4	TLC–LED–1200	4.68 kW	B
		16'	2	TLC–BT–575	1.15 kW	B
10			48		51.40 kW	

CIRCUIT SUMMARY

CIRCUIT	DESCRIPTION	LOAD	FIXTURE QTY
A	SOFTBALL 1	25.70 kW	24
B	SOFTBALL 2	25.70 kW	24

FIXTURE TYPE SUMMARY

TYPE	SOURCE	WATTAGE	LUMENS	L90	L80	L70	QUANTITY
TLC–BT–575	LED 5700K – 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC–LED–1200	LED 5700K – 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	40

SINGLE LUMINAIRE AMPERAGE DRAW CHART

DRIVER SPECIFICATIONS (.90 MIN POWER FACTOR)	LINE AMPERAGE PER LUMINAIRE (MAX DRAW)						
SINGLE PHASE VOLTAGE	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC–LED–1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC–BT–575	3.3	3.2	2.9	2.5	2.0	1.8	1.5

LIGHT LEVEL SUMMARY

CALCULATION GRID SUMMARY

GRID NAME	CALCULATION METRIC	ILLUMINATION AVE					CIRCUITS	FIXTURE QTY
		AVE	MIN	MAX	MAX/MIN	AVE/MIN		
SOFTBALL 1 (INFIELD)	HORIZONTAL ILLUMINANCE	52.92	38.66	63.89	1.65	1.37	A	24
SOFTBALL 1 (OUTFIELD)	HORIZONTAL ILLUMINANCE	34.22	22.17	45.08	2.03	1.54	A	24
SOFTBALL 2 (INFIELD)	HORIZONTAL ILLUMINANCE	52.92	38.66	63.89	1.65	1.37	B	24
SOFTBALL 2 (OUTFIELD)	HORIZONTAL ILLUMINANCE	34.22	22.17	45.08	2.03	1.54	B	24

Ronald E. Pledger

NORTH CAROLINA REGISTERED ENGINEERING CORPORATION SEAL C-0416 DIBBLE & PLEDGER, P.A.

NORTH CAROLINA PROFESSIONAL SEAL 11654 ENGINEER RONALD E. PLEDGER

6/10/2025

#1625 LD6359

ELECTRICAL DESIGN BY:
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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	60% DD SET	1/14/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA
SPORTS LIGHTING FIELD 1 & FIELD 2 POINT BY POINT

DESIGNED BY:	REP
DRAWN BY:	WAW
CHECKED BY:	REP
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	E102

LUMINAIRE LOCATION SUMMARY							
			INSERTION POINT				
LUMNO	LUMNO	LABEL	X	Y	Z	ORIENT	TILT
1		CC21x2-72L-700-5K7-3_1_1way	507.241	272.944	33	257.299	0
2		CC21x2-72L-700-5K7-4W	674.913	248.22	33	265.417	0
3		CC21x2-72L-700-5K7-4W	785.848	250.052	33	287.234	0
4		CC21x2-72L-700-5K7-4W	897.022	301.865	33	309.471	0
5		CC21x2-72L-700-5K7-4W_1	974.299	386.431	33	45.49	0
6		CC21x2-72L-700-5K7-4W_1	1036.25	466	33	50.382	0
7		CC21x2-72L-700-5K7-4W_1	1119.476	571.351	33	56.931	0
8		CC21x2-72L-700-5K7-4W_1	1195	709.25	33	63.1	0
9		CC21x2-72L-700-5K7-3_1_1way	1288.75	756.5	33	159.677	0
10		CC17x2-36L-730-4K7-3	909.25	545	24	53.323	0
11		CC17x2-36L-730-4K7-3	909.25	475.75	24	234.104	0
12		CC17x2-36L-730-4K7-3	820.949	534.569	24	234.663	0
13		CC17x2-36L-730-4K7-3	811.396	605.763	24	54.711	0
14		CC17x2-36L-730-4K7-3	734.771	595.098	24	234.083	0
15		CC17x2-36L-730-4K7-3	648.466	518.699	24	320.764	0
16		CC17x2-36L-730-4K7-3	556	388.75	24	332.945	0
17		WTA-27-VS-CP-BR-PC (11W, 4000	1144.311	424.639	3.5	54.664	0
18		WTA-27-VS-CP-BR-PC (11W, 4000	1173.818	411.424	3.5	234.75	0
19		WTA-27-VS-CP-BR-PC (11W, 4000	1194.483	386.949	3.5	51.791	0
20		WTA-27-VS-CP-BR-PC (11W, 4000	1223.168	373.206	3.5	227.562	0
21		WTA-27-VS-CP-BR-PC (11W, 4000	1243.748	350.293	3.5	52.055	0
22		WTA-27-VS-CP-BR-PC (11W, 4000	1273.589	334.134	3.5	231.876	0
23		WTA-27-VS-CP-BR-PC (11W, 4000	1293.39	311.814	3.5	51.815	0
24		WTA-27-VS-CP-BR-PC (11W, 4000	1271.376	623.477	3.5	60.327	0
25		WTA-27-VS-CP-BR-PC (11W, 4000	1306	613.25	3.5	242.021	0
26		WTA-27-VS-CP-BR-PC (11W, 4000	1326.969	592.411	3.5	66.743	0
27		WTA-27-VS-CP-BR-PC (11W, 4000	1357.452	583.137	3.5	241.212	0
28		WTA-27-VS-CP-BR-PC (11W, 4000	1381.005	561.77	3.5	62.259	0
29		WTA-27-VS-CP-BR-PC (11W, 4000	1411.275	551.353	3.5	243.284	0
30		WTA-27-VS-CP-BR-PC (11W, 4000	1435.149	532.659	3.5	61.188	0
31		WTA-27-VS-CP-BR-PC (11W, 4000	1425.542	576.207	3.5	316.831	0
32		WTA-27-VS-CP-BR-PC (11W, 4000	1448.467	592.156	3.5	134.697	0

LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	ARRANGEMENT	DESCRIPTION	TAG	LLF	LUMINAIRE LUMENS	LUMINAIRE WATTS	TOTAL WATTS
	7	CC17x2-36L-730-4K7-3	SINGLE	CC17x2-36L-730-4K7-3		1.000	9297	84.52	591.64
	16	WTA-27-VS-CP-BR-PC (11W, 4000	SINGLE	WTA-27-VS-CP-BR-PC (11W, 4000K)		1.000	1700	10.57	169.12
	2	CC21x2-72L-700-5K7-3_1_1way	SINGLE	1way		1.000	17871	158.56	317.12
	4	CC21x2-72L-700-5K7-4W_1	BACK-BACK	2way		1.000	18663	158.6	1268.8
	3	CC21x2-72L-700-5K7-4W	SINGLE	CC21x2-72L-700-5K7-4W		1.000	18663	158.6	475.8

1 E105 LIGHTING POINT BY POINT SITE PLAN (PEDESTRIAN & PARKING LOT) 1"=30'-0"

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353 E. Six Forks Road
Raleigh, NC 27609
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Landscape Architects

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	60% DD SET	1/14/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

PEDESTRIAN & PARKING LOT LIGHTING POINT BY POINT

Ronald E. Pledger

NORTH CAROLINA REGISTERED ENGINEERING FIRM C-0416 SEAL DIBBLE & PLEDGER, P.A.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 11654 RONALD E. PLEDGER

6/10/2025

DESIGNED BY:	REP
DRAWN BY:	WAW
CHECKED BY:	REP
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
	#1625 LD6359
SHEET No.	E105

ELECTRICAL DESIGN BY:
DIBBLE & PLEDGER, P.A.
222 WEST MAIN STREET, WASHINGTON N.C. 27889
PHONE : (252) 946-3320 FAX: (252) 946-5160
E-MAIL: rpledger@dibbleandpledger.com

CURRITUCK COMMUNITY PARK - PHASE III

SHORTCUT ROAD
BARCO, CURRITUCK COUNTY, NORTH CAROLINA 27917

JULY 1, 2025 - CURRITUCK COUNTY SITE PLAN SUBMITTAL

OWNER/DEVELOPER:

CURRITUCK COUNTY
JASON WEEKS
153 COURTHOUSE ROAD,
CURRITUCK NC, 27929
252-232-3007
JASON.WEEKS@CURRITUCKCOUNTYNC.GOV

CIVIL ENGINEER:

RIVERS AND ASSOCIATES, INC.
353 E. SIX FORKS ROAD, SUITE 230
RALEIGH, NORTH CAROLINA 27609
919-594-1626, x6300
BRUFF@RIVERSANDASSOCIATES.COM

LANDSCAPE ARCHITECT:

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SURVEYOR:

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ARCHITECT:

INTREPID ARCHITECTURE
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STRUCTURAL ENGINEER:

NRW ENGINEERING
748 LORD DUMMORE DRIVE, SUITE 101
VIRGINIA BEACH VA, 23464
757-474-0919
PDM@NRWENGINEERING.COM

MECHANICAL, ELECTRICAL, & PLUMBING:

DIBBLE & PLEDGER, P.A
P.O. BOX 1885
WASHINGTON NC, 27889
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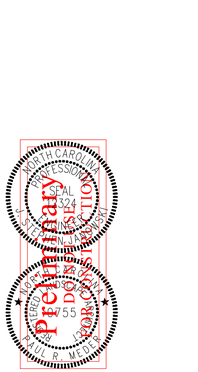

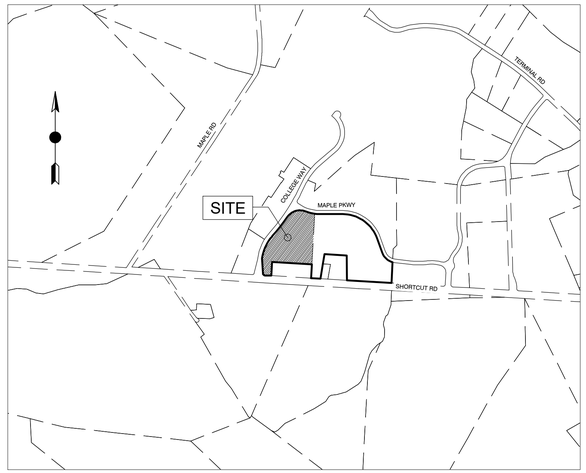

VICINITY MAP

1" = 1000' - 0"

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C1.10	SURVEY
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C2.12	ENLARGED SITE PLAN - SW
C2.51	SITE DETAILS
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E101	LIGHTING & POWER SITE PLANS BALL FIELDS & PARKING LOT
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Do Not Use for Construction - PRELIMINARY

1. TOPOGRAPHICAL DATA PERFORMED BY RIVERS AND ASSOCIATES.

2. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OF FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. THE OWNER SHALL PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF ANY EXISTING FACILITIES.

3. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.

4. ALL STRUCTURAL FILL MATERIAL SHALL BE FREE OF ALL STICKS, ROCKS, AND CLUMPS OF MUD.

5. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN AN APPROVED SOLID WASTE LANDFILL.

6. PROPOSED ROADWAY CONSTRUCTION WITH WATER AND S.S.. STREETS TO HAVE STANDARD 30" VALLEY CURB. PRIVATE STREETS.

7. THERE IS EXISTING UNDERGROUND WATER, S.S., ELECTRICAL, OR FIBER OPTIC ON-SITE OR WITHIN CLOSE PROXIMITY. CONTRACTORS SHALL CALL 811 48 HOURS PRIOR TO DIGGING. CONTRACTORS SHALL DIG WITH EXTREME CAUTION.

8. CONCRETE SUB SHALL BE RESPONSIBLE FOR ALL SCORE JOINTS AND EXPANSION JOINTS, CONTRACTOR TO SUBMIT PROPOSED SCORE JOINT PLAN TO THE ENGINEER PRIOR TO POURING.

9. CONTRACTOR TO FURNISH ALL PAVEMENT MARKINGS AS SHOWN.

10. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CONTACT THE NC ONE CALL CENTER AT LEAST 72 HOURS PRIOR TO DIGGING @ 811. RIVERS AND ASSOCIATES HAS ONLY LOCATED THE UTILITIES THAT ARE ABOVE GROUND AT THE TIME OF FIELD SURVEY. UNDERGROUND LINES SHOWN HEREON ARE APPROXIMATE OR AS REPORTED BY VARIOUS RESPONSIBLE PARTIES. THE SURVEYOR DOES NOT GUARANTEE THAT ANY UNDERGROUND STRUCTURES SUCH AS UTILITIES, TANKS AND PIPES ARE LOCATED HEREON.

11. ALL PIPE LENGTHS ARE HORIZONATL DISTANCES AND ARE APPROXIMATE.

12. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND/OR LOCAL STANDARDS IMPOSED BY LOCAL UTILITY, NCDOT AND CURRITUCK COUNTY.

13. ALL CONSTRUCTION AND MATERIALS SHALL MEET CURRITUCK COUNTY AND NCDOT SPECIFICATIONS AND STANDARDS, LATEST EDITION. ALL WORK WITHIN NCDOT RIGHT-OF-WAY SHALL MEET THE SPECIFICATIONS AND STANDARDS OF NCDOT.

14. ALL CONCRETE PIPE IS TO BE ASTM C-76, CLASS III WITH RAM-NEK, UNLESS OTHERWISE NOTED.

15. THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD ZONE.

16. WETLANDS AND PONDS ARE DENOTED ON-SITE. NO IMPACTS TO WETLANDS ARE ANTICIPATED.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT RIGHT-OF-WAY. ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

18. PRIOR TO PLACING CABC STONE BASE, THE CONTRACTOR SHOULD NOTIFY THE PROJECT ENGINEER TO INSPECT AND PROOF ROLL THE SUBGRADE. ANY STONE PLACED WITHOUT PRIOR APPROVAL WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

19. DESIGN/FIELD CONDITIONS QUITE EASILY MAY VARY FROM THAT REPRESENTED IN THE INITIAL SOILS REPORT AND/OR TOPOGRAPHICAL REPORT. ISOLATED AREAS MAY SHOW UP WEAK AND ADVERSE SOILS OR GROUNDWATER CONDITIONS MAY BE DISCOVERED THAT WERE NOT REVEALED DURING THE INITIAL SOILS INVESTIGATION. THEREFORE, THE OWNER/CLIENT IS TO BE AWARE THAT STOCKS ENGINEERING WILL NOT AND CANNOT BE HELD RESPONSIBLE FOR ANY FAILURES TO EITHER A STREET OR PARKING LOT PAVEMENT DESIGN UNLESS WE CAN BE FULLY AND TOTALLY INVOLVED IN THE CONSTRUCTION PROCESS WHICH MAY INCLUDE, BUT MAY NOT NECESSARILY BE LIMITED TO, TESTING SUBGRADE AND BASE DENSITY, ENGAGING THE DESIGN ENGINEER TO CALL IN A SOILS ENGINEER FOR CONSULTATION AND ADVICE, ETC. - STEPS WHICH TAKEN ALTOGETHER WITH THE INITIAL DESIGN SHOWN ON THE PLANS, CONSTITUTE THE COMPLETE DESIGN OF THE ROAD, STREET OF PARKING AREA (PRIVATE OR PUBLIC). THE DESIGN ENGINEER MUST BE GIVEN THE FULL LATITUDE AND OPPORTUNITY TO COMPLETE THE DESIGN BY FULLY PARTICIPATING IN THE CONSTRUCTION PROCESS. PLAN DESIGN IS A SMALL PORTION OF THE DESIGN AND CANNOT BE SEPARATED FROM THE CONSTRUCTION PROCESS IF THE OWNER'S/CLIENT'S DESIRE IS TO HAVE THE DESIGN ENGINEER STAND BEHIND THE COMPLETED DESIGNED PROJECT.

20. ALL UTILITY SERVICES, (POWER, TELEPHONE, CABLE, ETC.) ARE PROPOSED TO BE UNDERGROUND. DO NOT SOD, SEED OR MULCH DISTURBED AREAS UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN INSTALLED.

21. SITE LIGHTING IS TO BE INSTALLED BY DUKE ENERGY.

22. PROPERTY IS TO BE SURVEYED BY CURRITUCK COUNTY .

23. THE BUILDING SETBACK LINES SHOWN ON THIS PLAT ARE FOR THE ENGINEER'S USE IN ESTABLISHING MINIMUM LOT FRONTAGES AT THE SETBACK LINE AND FOR RESERVING SUFFICIENT BUILDING AREA. BUILDING CONTRACTORS ARE TO VERIFY LOT LINE SETBACKS BEFORE SETTING FORMS OR DIGGING FOOTINGS. THERE ARE NO AGENCY IMPOSED SETBACK LINES AT FLOWERS.

24. REGULATORY SIGNS, STOP SIGNS AND ADA SIGNS SHALL BE MANUFACTURED FROM HIGH INTENSITY REFLECTIVE MATERIALS.

25. ALL EXCESS TOPSOIL AND UNCLASSIFIED EXCAVATION IS TO BE HAULED OFF-SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER.

26. ALL SITE CONSTRUCTION MUST BE INSPECTED BY THE PROJECT ENGINEER AT THE FOLLOWING STAGES:
A. COMPLETION OF GRADING SUB GRADE PRIOR TO TO PLACING STONE BASE.
B. COMPLETION OF STONE PLACEMENT PRIOR TO PAVING.
C. FINAL INSPECTION WHEN ALL WORK IS COMPLETE.

27. THE SURVEYOR DID NOT VISIBLY SEE ANY CEMETERIES IN ANY OPEN AREAS UNLESS OTHERWISE NOTED.

28. THIS PROPERTY DOES NOT DEPICT ENCUMBRANCES THAT ARE FOUND DURING A THOROUGH TITLE SEARCH.

29. ALL HVAC UNITS FOR THE PROPOSED BUILDING WILL BE SCREENED FROM PUBLIC RIGHT OF WAY.

30. ALL CURB AND GUTTER TO BE 30" STANDARD VALLEY CURB AND GUTTER. ALL CURB AND GUTTER WITHIN NCDOT R/W SHALL BE 30" STANDARD CURB AND GUTTER.

31. ALL CURB AND GUTTER AND SIDEWALK CONCRETE IS TO BE MINIMUM 3,000 PSI AT 28 DAYS, AIR ENTRAINED.

32. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS INDICATED OTHERWISE.

33. PROVIDE HANDICAP SIGNS, MARKING AND RAMPS AS SHOWN.

34. HANDICAP RAMPS ARE TO MEET "ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" AS DETAILED IN THE FEDERAL REGISTER, VOLUME 56, NUMBER 144 DATED JULY 26, 1991. RULES AND REGULATIONS ACTIVATED JANUARY 26, 1992. FOR ADDITIONAL INFORMATION REFER TO THE NC STATE BUILDING CODE VOLUME 1-C, "MAKING BUILDINGS AND FACILITIES ACCESSIBLE TO THE USEABLE BY THE PHYSICALLY HANDICAPPED", 1991 EDITION. ALL STREET RETURNS TO HAVE H.C. RAMPS. H.C. RAMPS SHALL MEET NCDOT STANDARDS/SPECIFICATIONS.

35. CONTRACTOR SHALL NOT POUR ANY CONCRETE BEFORE FORMS ARE INSPECTED BY THE PROJECT ENGINEER AND/OR OWNER. ANY CONCRETE THAT HAS NOT BEEN APPROVED BY THE ENGINEER AND/OR OWNER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

36. A 10' UTILITY, DRAINAGE AND ROAD MAINTENANCE EASEMENT IS RESERVED ALONG AND ADJACENT TO ALL STREET RIGHT OF WAYS.

37. CONTRACTOR SHALL SAW-CUT TO PROVIDE SMOOTH TRANSITIONS WHERE EXISTING ASPHALT AND/OR CURB AND GUTTER IS TO BE REMOVED.

38. THE CONTRACTOR SHALL PROVIDE ALL THE MATERIAL AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE UTILITIES. ALL PIPE AND FITTINGS SHALL BE INSPECTED PRIOR TO BEING COVERED.

39. ALL HANDICAP SPACES ARE TO RECEIVE A HANDICAP SIGN AND HANDICAP SYMBOL PAINTED ON THE ASPHALT. NOTE STALLS TO RECEIVE 'VAN ACCESSIBLE' SIGNAGE.

40. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE POINTS.

41. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 12 INCHES, WHICH EVER IS LESS, CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

42. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT PRICE THE REMOVAL AND DISPOSAL OF ANY EXCESS TOPSOIL/UNCLASSIFIED HE DETERMINES IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATION.

43. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. THE OWNER, SAMPSON COUNTY, CITY OF CLINTON & STOCKS ENGINEERING ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.

44. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES, CONSTRUCTION STAKEOUT ASSOCIATED WITH THE PROJECT.

45. ALL WATER LINE AND S.S. LINE INSTALLATION SHALL CONFORM TO THE STANDARDS AND DETAILS OF THE STATE OF NORTH CAROLINA DEPARTMENT OF HEALTH CONSTRUCTION PERMIT, CURRITUCK COUNTY.

46. ASPHALT PAVEMENT SHALL BE SMOOTH, WITH STRAIGHT OVERLAPPING SEAMS, FREE OF SEGREGATION, STAINS, BIRD BATHS, AND IMPERFECTIONS. ASPHALT PATCHING, SKIN PATCHES, OR RE-HEATING AND ROLLING WILL NOT BE ALLOWED. AREAS THAT ARE NOT ACCEPTABLE TO THE OWNER/ENGINEER WILL BE SAWCUT AND REMOVED. NO PATCH SMALLER THAN 200 SF WILL BE ALLOWED AND THE SAWCUTS MUST FALL ON A PAINT LINE OR EXISTING SEAM.

47. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE WATER AND S.S. LINES REQUIRED BY THE STATE OF NORTH CAROLINA DEPARTMENT OF HEALTH.

48. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DE-WATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.

50. TESTING BY CONTRACTOR: CONTRACTOR SHALL EMPLOY AT HIS EXPENSE AN OUTSIDE INDEPENDENT SOIL TESTING SERVICE (APPROVED BY THE OWNER) TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. COPIES OF RESULTS OF TESTS SHALL BE SUBMITTED BY THE TESTING SERVICE DIRECTLY TO THE CONTRACTOR, THE OWNER, AND THE STRUCTURAL ENGINEER. -- THE TESTING SERVICE WILL CLASSIFY PROPOSED ON-SITE AND BORROW SOILS TO VERIFY THAT SOILS COMPLY WITH SPECIFIED REQUIREMENTS AND TO PERFORM REQUIRED FIELD AND LABORATORY TESTING. (MINIMUM REQUIRED SOIL BEARING CAPACITY IS NOTED ON THE STRUCTURAL DRAWINGS). -- IN PAVED AND BUILDING SLAB AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 2000 SQUARE FEET OF FILL IN EACH COMPACTED FILL LAYER. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION. -- IN FOUNDATION WALL AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH OF FILL IN EACH COMPACTED FILL LAYER, WITH NO LESS THAN TWO TESTS ALONG A WALL FACE. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION.

51. COMPACTION: COMPACT EACH LAYER OF BACKFILL AND FILL SOIL MATERIALS AND THE TOP 12" OF SUBGRADE IN CUT AREAS TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 FOR STRUCTURES, SLABS, AND PAVEMENTS AND 90% OF MAXIMUM DENSITY FOR LAWNS OR UNPAVED AREAS.

52. THE BUILDING CONTRACTOR AND THE SITE WORK CONTRACTOR ARE TO COORDINATE THE INSTALLATION OF DRAINAGE PIPES AROUND THE BUILDING STRUCTURE.

53. ANY RELOCATION OF EXISTING UTILITIES WILL BE AT THE COST OF THE CONTRACTOR.

54. FIRE DEPARTMENT VEHICULAR ACCESS TO ALL STRUCTURES UNDER CONSTRUCTION SHALL BE PROVIDED AT ALL TIMES. IN AREAS WHERE GROUND SURFACE ARE SOFT OR LIKELY TO BECOME SOFT, HARD ALL WEATHER SURFACE ROADS SHALL BE PROVIDED AND MAINTAINED.

55. ADDRESS NUMBERS, BOTH COMMERCIAL AND RESIDENTIAL, MUST BE POSTED ON THE FRONT OF THE STRUCTURE NEAREST TO THE MAIN ENTRANCE IN A POSITION TO BE PLAINLY LEGIBLE, VISIBLE, AND UNOBSTRUCTED FROM THE STREET OR ROAD FRONTING THE PROPERTY.

56. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED CONSTRUCTION. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND REPLACEMENT OF ANY UTILITIES, CURB, GUTTER, PAVEMENT, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OF THE ORIGINAL WORKMANSHIP. THE CONTRACTOR SHALL VERIFY UTILITIES AND AVOID OR RELOCATE IF REQUIRED.

57. (CONSTRUCTION/SITE PLANS) WATER AND S.S. PERMIT APPLICATIONS HAVE BEEN APPROVED BY NCDEQ. PERMIT NUMBERS ARE AS FOLLOWS:
WATER PERMIT NUMBER: TO BE DETERMINED
S.S PERMIT NUMBER: TO BE DETERMINED

58. COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION. THIS INCLUDES APPROVED CONSTRUCTION PLANS, APPROVED EROSION CONTROL PLANS, ENCROACHMENT AGREEMENTS, DRIVEWAY PERMITS, WATER/S.S. PERMITS, ETC.

59. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL NCDOT, CURRITUCK COUNTY AND NCDENR STANDARDS AND SPECIFICATIONS.

60. ALL DRAINAGE CASTINGS TO RECEIVE BITUMINOUS COATING.

61. ALL DRAINAGE STRUCTURES OVER 42" DEEP SHALL HAVE STEPS.

62. FIRE HYDRANTS ARE TO BE INSTALLED AT EDGE OF RIGHT-OF-WAY AND AT PROPERTY CORNERS. LOCATIONS SHOWN ARE FOR CLARIFICATION.

63. MAINTAIN MINIMUM 3' COVER FOR ALL WATER PIPE.

64. WATERLINE PIPE SHALL BE C-900 PVC UNLESS OTHERWISE NOTED.

65. CORPORATION STOPS SHALL BE RATED A MINIMUM OF 300 PSI.

66. WHERE WATERLINE CROSSES:
A. SANITARY S.S.: WATERLINE SHALL CROSS ABOVE AND MAINTAIN 2' VERTICAL SEPARATION OR 10' OF HORIZONTAL SEPARATION. IF THIS SEPARATION CANNOT BE MAINTAINED OR IF WATER PASSES BELOW S.S., THEN BOTH WATER AND S.S. SHALL BE CLASS 50 DUCTILE IRON PIPE FOR A MINIMUM OF 10' EACH SIDE OF CROSSING.
B. STORM S.S: WHERE WATERLINE CROSSES ABOVE, MAINTAIN 1' VERTICAL SEPARATION. IF THIS SEPARATION CANNOT BE MAINTAINED OR WHERE WATER AND/OR S.S. CROSSES BELOW STORM, WATERLINE AND/OR S.S. SHALL BE CLASS 50 DUCTILE IRON PIPE FOR A MINIMUM OF 10' EACH SIDE OF CROSSING.

67. ALL GRAVITY S.S LINE IS SDR 35 PVC EXCEPT WHEN NOTED DIFFERNTLY ON PLANS OR AS FOLLOWS: ALL S.S LESS THAN 3' DEEP OR GREATER THAN 14' DEEP SHALL BE A MINIMUM CLASS 50 DUCTILE IRON.

68. EACH LOT SHALL HAVE A 4" S.S. SERVICE AND 3/4 WATER SERVICE AS SHOWN ON THE PLANS.

69. WATER SERVICES ARE TO BE GANGED AS SHOWN. GANGE SERVICES SHALL BE 1" IN A 1.5" PVC SLEEVE WHEN UNDER PAVEMENT.

70. WATER LINE TO BE PRESSURE TESTED TO 150 PSI FOR 2 HOURS.

71. DUCTILE IRON SANITARY S.S. SHALL HAVE THE INTERIOR COATED WITH SEWPER COAT OR PROTECTO 401.

72. CONTRACTOR TO TEST S.S. AND WATER LINE ACCORDING TO CURRITUCK COUNTY.

73. SANITARY S.S. SERVICES SHALL HAVE A DEPTH NO GREATER THAN 6' BELOW FINISHED GRADE AT TERMINATION OF LATERAL. THE LOCATION SHALL BE MARKED BY A 4" PVC TURN-UP AT THE END OF THE LATERAL. CONTRACTOR WILL MARK ALL S.S SERVICES WITH AN "S" IN THE FACE OF THE CURB.

74. WATER SERVICES SHALL HAVE A DEPTH NO GREATER THAN 6' BELOW FINISHED GRADE AT TERMINATION OF THE SERVICE. THE CONTRACTOR WILL MARK ALL WATER SERVICES WITH A "W" IN THE FACE OF THE CURB.

75. THE CONTRACTOR TO NOTIFY ENGINEER & CURRITUCK COUNTY 48 HRS PRIOR TO COMMENCEMENT OF CONSTRUCTION & ANY UTILITY BEING COVERED.

76. S.S. LINES SHALL BE PRESSURE TESTED WITH 5 PSI FOR 2 MINUTES WITH NO LEAKAGE.

77. S.S. MANHOLES SHALL BE EITHER VACUUM TESTED AT 10" MERCURY FOR 2 MINUTES WITH NO LEAKAGE OR PRESSURE TESTED AT 5 PSI FOR 2 MINUTES WITH NO LEAKAGE.

78. MANHOLES TO HAVE EPOXY COATING INSIDE (24 MILS) AND OUTSIDE (16 MILS) DONE IN 2 COATS BY THE MANUFACTURER PER NC SPECS. DIVISION 3, SECTION 9.3, HEAT SHRINK RUBBER CHIMNEY SEAL, AND ALL CASTINGS TO HAVE BITUMINIOUS COATING.

79. CURRITUCK COUNTY SPECIFICATIONS AND DETAILS MAY CONFLICT. THE MORE STRINGENT SHALL APPLY.

80. CONTRACTOR SHALL PRETEST ALL WATER AND S.S. PRIOR TO SCHEDULING INSPECTION WITH CURRITUCK COUNTY OR ENGINEER. RE-INSPECTIONS DUE TO FAILED TEST WILL BE BILLED TO THE CONTRACTOR AT $150 PER HOUR.

EXISTING CONDITIONS

LEGEND

CONTOURS
RIGHT OF WAY (R/W)
COUNTY GIS PARCEL LINES
TOP OF BANK (DITCH/SWALE)
TOE OF BANK (DITCH/SWALE)
CENTERLINE OF DITCH/SWALE
EASEMENT
COMMUNICATION LINE (NC811)
GAS LINE (GL) (NC811)
UNDERGROUND ELECTRIC (NC811 MARKING)
OVERHEAD ELECTRIC
GUY ANCHOR
SANITARY SEWER LINE (SS) (CITY OF KINSTON - NC811)
SEWER FORCE MAIN (CITY OF KINSTON)
WATER LINE (WL) (NC811 MARKING)
EDGE OF LANDSCAPING
STORM DRAINAGE PIPE
FENCE
WOOD LINE/ VEGETATION
EDGE OF CRUSHED ROCK
ROOF OVERHANG
BUILDING
HORIZONTAL CONTROL
TEMPORARY BENCHMARK (TBM)
SANITARY SEWER MANHOLE (SSMH)
CLEANOUT
TELEPHONE PEDESTAL
FIBER OPTIC MARKER
ROOF DRAIN
WOOD POST
METAL POST
MAIL BOX
SHRUB
WATER VALVE
WATER METER
FIRE HYDRANT
HOSE BIB
SIGN
LIGHT POLE
UTILITY POLE
UTILITY POLE W/ LIGHT
ELECTRIC METER
EMERGENCY SHUT OFF
GAS METER
GAS CONNECTION
EXISTING IRON PIPE
EXISTING IRON ROD
EXISTING RIGHT OF WAY MONUMENT DISTURBED

EROSION CONTROL LEGEND

EXISTING CONTOURS
PROPOSED CONTOURS
LIMITS OF DISTURBANCE
BASIN DRAINAGE BOUNDARY
TREE PROTECTION FENCE
SILT FENCE
SUPER SILT FENCE
COMBO TREE PRO/SILT FENCE
SILT FENCE OUTLET
DIVERSION DITCH
CLEAN WATER DITCH
POROUS BAFFLE
STORM DRAINAGE PIPE
RIP-RAP ENERGY DISSIPATORS
CONSTRUCTION ENTRANCE
ROLLED EROSION CONTROL
MATTING
TEMP. INLET PROTECTION
COMPOST SOCK
TEMPORARY STOCKPILE
TEMP. ROCK CHECK DAM
CONCRETE WASHOUT

GRADING AND STORM DRAINAGE

LEGEND

EXISTING		PROPOSED
	EXISTING CONTOURS	
	LIMITS OF DISTURBANCE	LOD
	TREE PROTECTION FENCE	TP
	COMBO TREE PRO/SILT FENCE	SF-TP
	CATCH BASIN	
	STORM SEWER MANHOLE	
	DROP INLET	
	RAISED TOP YARD INLET	
	OUTLET CONTROL STRUCTURE	
	FLARED END SECTION	
	END WALL	
	STORM SEWER	

BACK OF CURB SPOT ELEVATION × 13.55 BC
TOP OF CONCRETE SPOT ELEVATION × 12.45 TC
TOP OF ASPHALT SPOT ELEVATION × 11.30 TA
BOTTOM OF RAMP SPOT ELEVATION × 11.56 BR
TOP OF RAMP SPOT ELEVATION × 13.50 TR
FINISH GRADE SPOT ELEVATION × 12.24 FG
TOP OF BOARDWALK SPOT ELEVATION × 14.00 TBW
TOP OF BANK SPOT ELEVATION × 11.09 TB
HIGH POINT SPOT ELEVATION × 10.50 HP
FINISHED GRADE SLOPE 1.25%

EXISTING CONDITIONS ABBREVIATIONS

OD	OUTSIDE DIAMETER
EL.	ELEVATION
HPST	HIGH PRESSURE STEEL
HVAC	HEATING, VENTILATION, AIR CONDITIONING
N/F	NOW OR FORMERLY
P.N.	PARCEL NUMBER
D.B.	DEED BOOK
P.C.	PLAT CABINET
SL.	SLIDE
PG.	PAGE
CLF	CHAIN LINK FENCE
BW	BARBED WIRE
CONC.	CONCRETE
TYP.	TYPICAL
UGE	UNDERGROUND ELEC.
PVC	POLYVINYL CHLORIDE (WL)
DIP	DUCTILE IRON PIPE
CM	CREPE MYRTLE
TEL.	TELEPHONE
CBBC	CATCH BASIN BACK OF CURB
DI	DRAINAGE INLET
HCR	HANDICAP RAMP
FFE	FINISH FLOOR ELEVATION
INV	INVERT
(E)	EAST
(W)	WEST
(N)	WEST
(S)	SOUTH
CP	CONCRETE PIPE

UTILITY PLAN

LEGEND

EXISTING		PROPOSED
	FIRE HYDRANT	
	WATER VALVE	
	WATER FITTING	
	WATER TEE	
	WATER CROSS	
	WATER REDUCER	
	PLUG	
	WATER METER	
	WATER FOUNTAIN	
	CLEANOUT	
	SANITARY SEWER MANHOLE	
	CATCH BASIN	
	STORM SEWER MANHOLE	
	DROP INLET	
	RAISED TOP YARD INLET	
	FLARED END SECTION	
W	DOMESTIC WATER LINE	W
F	FIRE WATER LINE	F
RCW	RECLAIMED WATER LINE	RCW
S	SANITARY SEWER	S
FM	FORCE MAIN	FM
	STORM SEWER	
G	GAS LINE	G
FO	FIBRE OPTIC	FO

LIST OF ABBREVIATIONS

AC	ACRE
BNDY	BOUNDARY
BOC,BC	BACK OF CURB
BOW	BACK OF WALK
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
BW	BOTTOM OF WALL (AT FINISHED GRADE)
C&G	CURB AND GUTTER
CB	CATCH BASIN
CIP	CAST-IN-PLACE
CFS	CUBIC FOOT PER SECOND
CL	CONTROL LINE/CENTER LINE
CMP	CORUGATED METAL PIPE
CONC.	CONCRETE
CU. FT (CF)	CUBIC FOOT
CU YD(CY)	CUBIC YARD
DCB	DOUBLE CATCH BASIN
DA	DRAINAGE AREA
DB	DEED BOOK
DBH	DIAMETER AT BREAST HEIGHT
DG	DESIGN GROUND
DI	DROP INLET
DIP	DUCTILE IRON PIPE
D/S	DOWNSTREAM
DWG	DRAWING
ECM	EXISTING CONCRETE MONUMENT
EIA	EXISTING IRON AXLE
EIP	EXISTING IRON PIPE
EIR	EXISTING IRON ROD
ELEV, EL	ELEVATION
EOA	EDGE OF ASPHALT
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
ESC	EROSION AND SEDIMENT CONTROL
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EW	END WALL
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FT.	FEET
FUT	FUTURE
G.S.	GENERAL STATUTE
HGL	HYDRAULIC GRADE LINE
HDPE	HIGH DENSITY POLYETHELENE
HP	HIGH PERFORMANCE POLYPROPYLENE
INV	INVERT
L	LENGTH
LBS	POUNDS
L_W	WEIR LENGTH
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
NAD	NORTH AMERICAN DATUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OBV	OBVERT
OG	ORIGINAL GROUND
O/S	OFFSET
OS	OUTSIDE
PL	PROPERTY LINE
PREC	PRECAST
PROP	PROPOSED
PVC	POLY VINYL CHLORIDE
PVI	POINT OF VERTICAL INFLECTION
PS	PUMP STATION
RTYI	RAISED TOP YARD INLET
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
SA	SURFACE AREA
SAN	SANITARY
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SF	SILT FENCE
SHLD	SHOULDER
SMH	SANITARY MANHOLE
SS	SANITARY SEWER
STM	STORM
STMH	STORM MANHOLE
STA	STATION
STD	STANDARD
SQ. FT (SF)	SQUARE FOOT
SQ YD(SY)	SQUARE YARD
TK	THICKNESS
TBA	TO BE ABANDONED
TBD	TO BE DETERMINED
TBR	TO BE REMOVED
TC	TOP OF CONCRETE
TP	TREE PROTECTION FENCING
TSB	TEMPORARY SKIMMER BASIN
TST	TEMPORARY SEDIMENT TRAP
TYP.	TYPICAL
TW	TOP OF WALL (AT FINISHED GRADE)
U/S	UPSTREAM
QTY	QUANTITY
VC	VERTICAL CURVE
YI	YARD INLET
W	WIDTH

NOTE: THIS LIST MAY NOT BE INCLUSIVE OF ALL ABBREVIATIONS USED WITHIN THE CONSTRUCTION DRAWING SET. IF THE CONTRACTOR IS UNSURE OF AN ABBREVIATION OR TERMINOLOGY USED WITHIN THIS CONSTRUCTION SET, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ENGINEER FOR CLARIFICATION. THE ENGINEER OR THE OWNER WILL NOT BE HELD LIABLE FOR MISINTERPRETATION OF THE CONSTRUCTION PLAN SET BY THE GENERAL CONTRACTOR OR ANY OF HIS SUB-CONTRACTORS.

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Six Forks Place III Ste. 230
3533 Six Forks Road
Raleigh, NC 27609
919.594.1626

Preliminary NOT FOR CONSTRUCTION

ISSUE/REVISIONS:

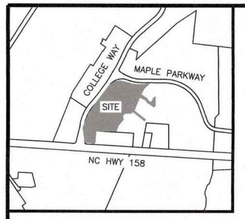
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

GENERAL NOTES AND LEGENDS

DESIGNED BY:	N/A
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C1.02

Do Not Use for Construction - PRELIMINARY



VICINITY MAP
(1"=1,000')

HORIZONTAL SURVEY CONTROL

POINT	LOCAL NORTHING (US FT-GROUND)	LOCAL EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION	GRID NORTHING (US FT-NAD 83/2011)	GRID EASTING (US FT-NAD 83/2011)
100	974,609.29'	2,877,953.10'	11.71'	CPNAIL-GPS 100	974,609.29'	2,877,953.07'
101	974,561.07'	2,878,353.97'	11.30'	CPNAIL-GPS 101	974,561.07'	2,878,353.97'

PROJECT CONTROL LOCALIZED TO GROUND AROUND RIVERS CONTROL POINT 101; CALCULATED COMBINED FACTOR = 0.99992410

VERTICAL SURVEY CONTROL

POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION
6091	974,627.72'	2,878,004.48'	15.50'	TOP OF HYDRANT
6090	974,172.87'	2,877,126.35'	12.43'	TOP OF HYDRANT

NORTH CAROLINA COUNTY OF CURRITUCK

I, JAMES W. ATKINSON III, P.L.S., CERTIFY THAT THE EXISTING TOPOGRAPHIC AND PLANIMETRIC INFORMATION SHOWN HEREON WAS DRAWN UNDER MY DIRECTION FROM AN ACTUAL SURVEY MADE BY JA, JS, AND GS ON 8/22/24–12/9/24 OF THE AREA SHOWN. BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM INFORMATION FOUND IN REFERENCED BOOK(S) AND PAGE(S). THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+, AND IN ACCORDANCE WITH THE US NATIONAL MAPPING ACCURACY STANDARDS. THE MAXIMUM VERTICAL ERROR IS NOT GREATER THAN ONE–HALF THE CONTOUR INTERVAL EXCEPT AS NOTED; THAT VERTICAL CONTROL WAS ESTABLISHED TO THE CLASS 'C' STANDARD VIA MULTIPLE NCGS RTN OBSERVATIONS ON CONTROL POINTS.

1) CLASS OF SURVEY:	CLASS A (HORIZ) CLASS C (VERT)
2) POSITIONAL ACCURACY:	2 CM(HORZ)
3) TYPE OF GPS FIELD PROCEDURE:	NCGS VRS RTN
4) DATE OF SURVEY WORK:	8/22/24 – 12/9/24
5) DATUM/EPOCH:	NAD83/2011
6) PUBLISHED CONTROL/FIXED CONTROL:	NCGS VRS RTN
7) GEOID MODEL:	GEOID18
8) COMBINED GRID FACTOR:	0.99992410
9) UNITS:	US SURVEY FEET

AND THAT THIS SURVEY MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600); WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 25TH *DAY OF JUNE, A.D. 2025.*

6/25/25
PROFESSIONAL LAND SURVEYOR LICENSE NO. L-5359

NORTH CAROLINA PROFESSIONAL SEAL L-5359 LAND SURVEYOR JAMES W. ATKINSON III
6/25/25

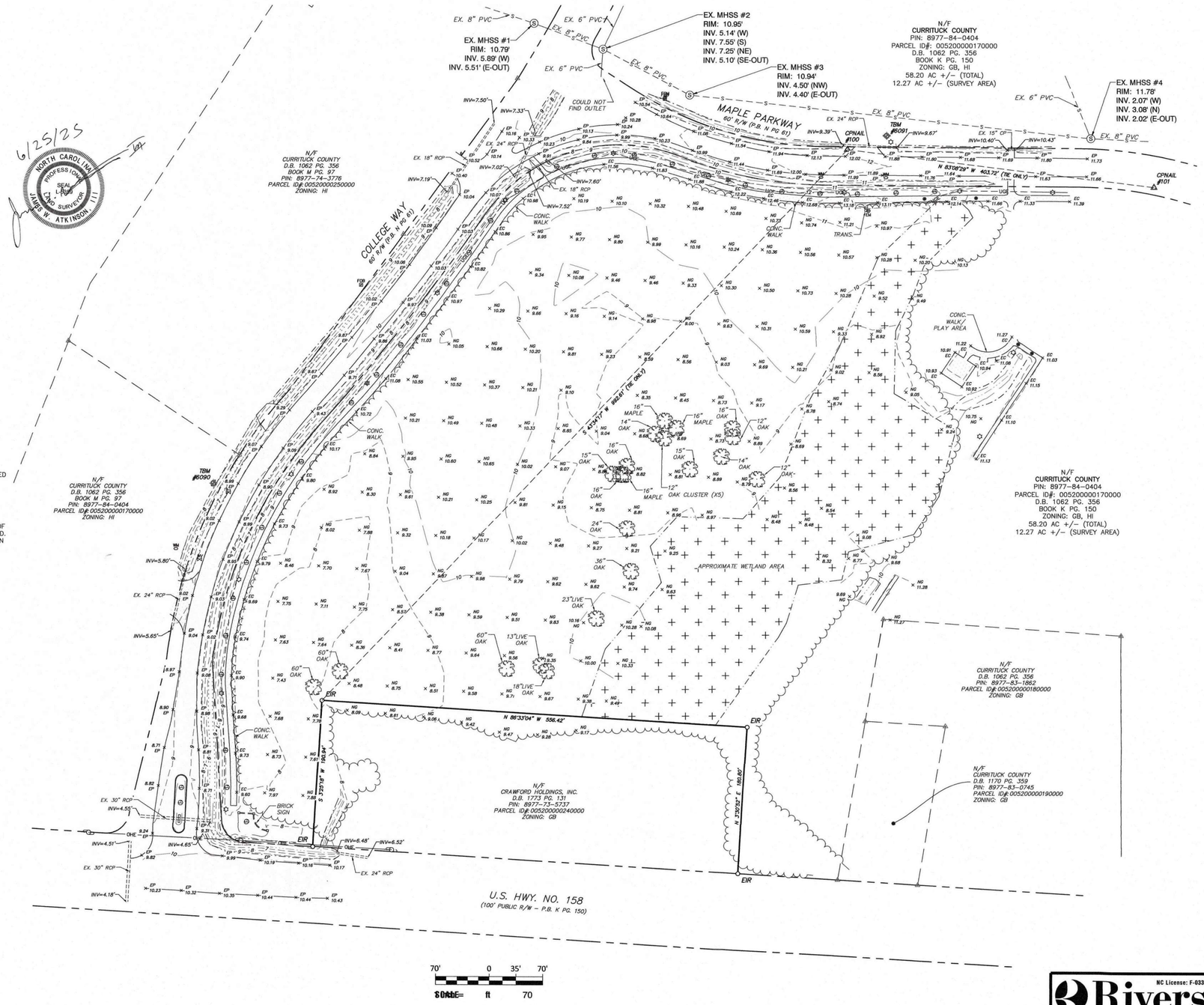
1. THE PURPOSE OF THIS PLAT IS TO DEPICT THE EXISTING TOPOGRAPHY AND PLANIMETRIC FEATURES OF THE SUBJECT PARCELS, AS OF THE DATE OF THIS SURVEY.
2. PROPERTIES SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS OF WAY, RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD.
3. ALL DISTANCES ARE HORIZONTAL GROUND MEASURED UNLESS SHOWN OTHERWISE.
4. THE PROPERTY IS LOCATED IN A ZONE "X" (AREAS OUTSIDE 1% ANNUAL CHANCE FLOOD 100 YEAR), AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 3720896600L, PANEL 8966, DATED 12/21/2018.
5. SURVEY AREA = 12.27 ACRES +/–. AREA DETERMINED BY COORDINATES.

CURRENT ZONING: GB, HI

7. UTILITIES: THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN ARE COMPRISED OF ALL SUCH UTILITIES AND IN THE AREA OF SURVEY EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND UTILITIES.
6. ELEVATIONS AND CONTOURS SHOWN ARE BASED ON NAVD 88 DATUM. VERTICAL CONTROL ESTABLISHED BY MULTIPLE NCGS RTN GPS OBSERVATIONS (CLASS C).
7. INSIDE THE WOODED AREA CONTAINS MOUNDS AND DEPRESSIONS DUE TO TREES, COUNTOUR INTERVALS MAY EXCEED THE 1/2' CONFIDENCE INTERVAL IN SOME AREAS.

REFERENCES:

D.B. 1062 PG. 356
BOOK K PG. 150
D.B. 1170 PG. 359
D.B. 1773 PG. 131
BOOK M PG. 97
BOOK N PG 61



NGRID NAD83/2011

LEGEND

- BOUNDARY
- ADJOINER LINE
- RIGHT-OF-WAY LINE
- STORM DRAIN PIPE
- OHE — OVERHEAD ELECTRIC LINE
- UGE — UNDERGROUND ELECTRIC LINE (BY MARKINGS)
- TOP OF BANK/SLOPE
- TOE OF BANK/SLOPE
- CENTERLINE OF DITCH
- BUILDING LINE
- EDGE OF CRUSHED ROCK
- EDGE OF APPROXIMATE WETLANDS
- EDGE OF LANDSCAPING
- EDGE OF WOODS/VEGETATION
- EDGE OF CONCRETE/BACK OF CURB
- EDGE OF PAVEMENT/ASPHALT
- TIE LINE
- CONTOUR LINE (MAJOR)
- CONTOUR LINE (MINOR)
- WV WATER VALVE
- WM WATER METER
- FIRE HYDRANT
- UTILITY/POWER POLE
- EM ELECTRIC METER
- TELEPHONE PEDESTAL
- FOB FIBER-OPTIC BOX
- FOM FIBER-OPTIC MARKER
- ORNAMENTAL LIVE OAK
- TREE (AS SPECIFIED)
- LIGHT POLE
- EIP EXISTING IRON PIPE
- EIR EXISTING IRON ROD
- SIP SET IRON PIPE
- NG NATURAL GROUND
- EC EDGE OF CONCRETE
- EP EDGE OF PAVEMENT
- TA TOP OF ASPHALT
- TOB TOB OF BANK/SLOPE
- TOE TOE OF BANK/SLOPE
- CLD CENTERLINE OF DITCH
- ASPHALT
- CONCRETE
- APPROXIMATE WETLANDS

ABBREVIATIONS

PIN	PARCEL IDENTIFICATION NUMBER
REID	REAL ESTATE IDENTIFICATION
N/F	NOW OR FORMERLY
D.B.	DEED BOOK
P.B.	PLAT BOOK
M.B.	MAP BOOK
P.G.	PAGE
INV.	INVERT
CI	CURB INLET
CB	CATCH BASIN
FES	FLARED-END SECTION
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
CLF	CHAIN-LINK FENCE
TOB	TOP OF BANK/SLOPE
TOE	TOE OF BANK/SLOPE
CLD	CENTERLINE OF DITCH
CLF	CHAIN-LINK FENCE
R/W	RIGHT-OF-WAY
S.R.	STATE ROAD
RD.	ROAD
BLVD.	BOULEVARD
EIP	EXISTING IRON PIPE
SIP	SET IRON PIPE
CONC.	CONCRETE
EX.	EXISTING

70' 0 35' 70'
1 inch = 70 ft

REVISIONS

TOPOGRAPHIC SURVEY FOR CURRITUCK COUNTY RECREATIONAL PARK

TOWN OF BARCO, CURRITUCK COUNTY, NORTH CAROLINA

OWNER: *CURRITUCK COUNTY*
ADDRESS: *P.O. BOX 9 CURRITUCK, NC 27929*

SURVEYED	JWA,JS,GS
DRAWN	JWA
CHECKED	JWA
APPROVED	P.M.
DATE	6/25/2025
SCALE	1" = 70'

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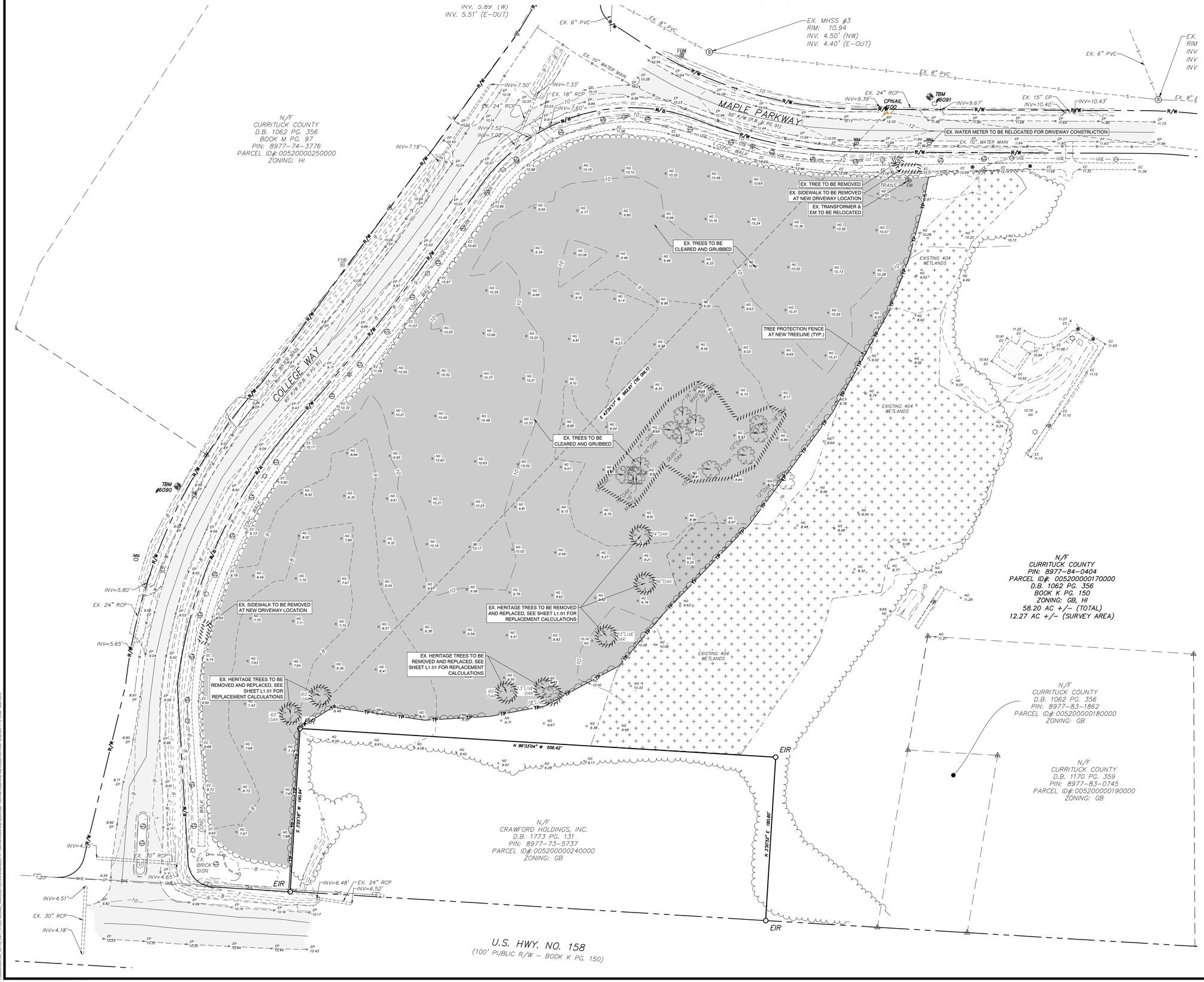
PROJECT NO.	2022109
DRAWING NO.	W-4224
SCALE	1"=70'
DATE	6/25/2025

SHEET NO. **C1.10**

DWG. NO. W-4224 SHEET NO. 1 OF 1

DWG. NO. W-4224



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Preliminary NOT FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

EXISTING CONDITIONS AND DEMOLITION PLAN

DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C1.21

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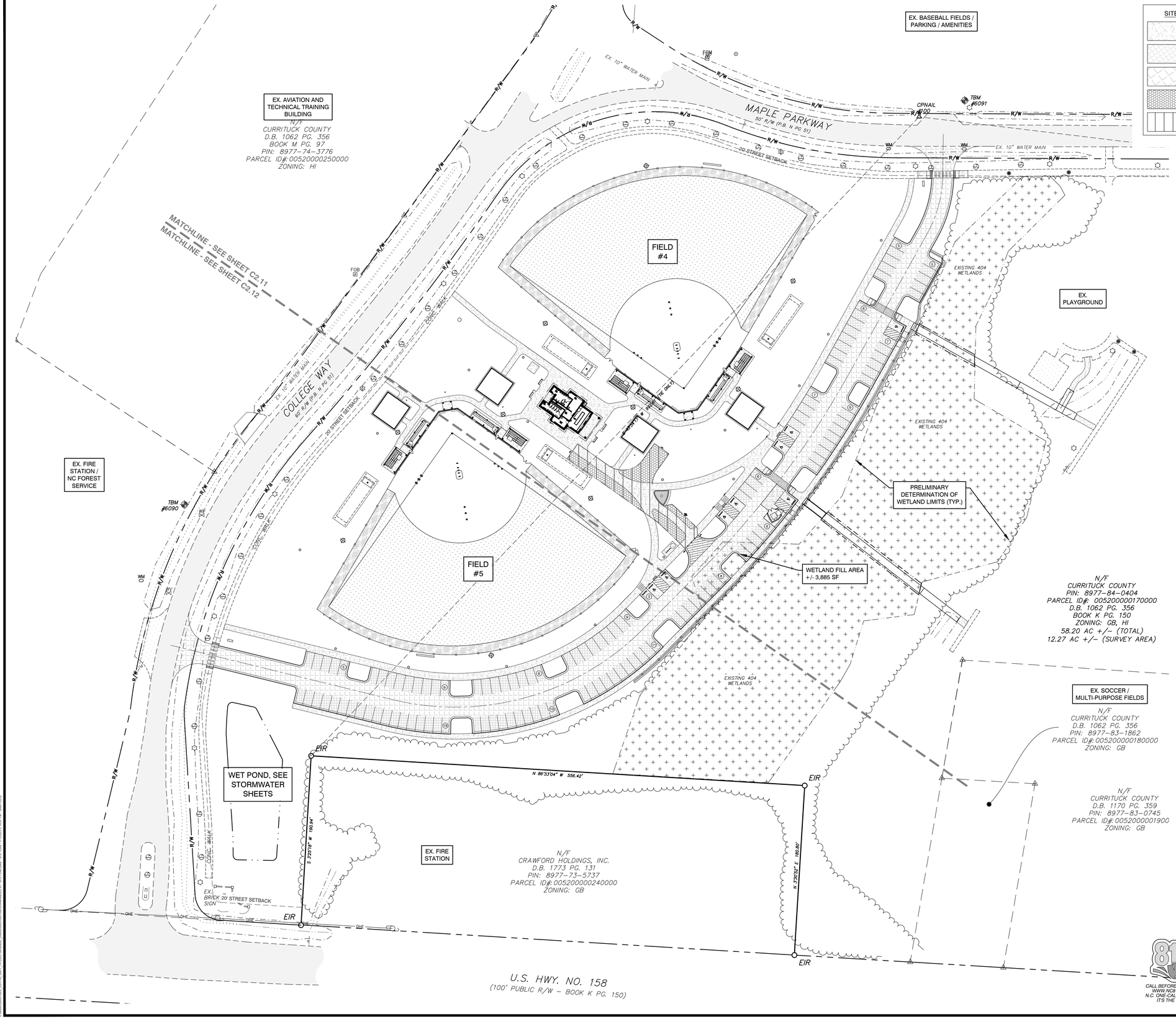

NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

SEE SHEET C2.11 FOR ENLARGED SITE PLAN NE SITE
SEE SHEET C2.12 FOR ENLARGED SITE PLAN SW SITE

SITE DATA TABLE

PROPERTY INFORMATION / SITE ADDRESSES -	PARCEL NO. - 005200000170000
	NC PIN - 8977-84-0404
	ADDRESS - SHORTCUT ROAD
	BARCO, CURRITUCK COUNTY, NORTH CAROLINA 27929
TOWNSHIP -	CRAWFORD
OWNER/DEVELOPER -	COUNTY OF CURRITUCK
	153 COURTHOUSE RD, CURRITUCK, NC 27929
SITE AREA -	EXISTING PARK TOTAL - 51.61 ACRES (PER CURRITUCK COUNTY GIS)
	SITE AREA WITHIN EX. PARK - 10.0 AC (+/- 435,600 SF)
LAND USE -	EXISTING - PARK, VACANT
ZONING -	GB
ZONING OVERLAY-	AP
PROPOSED USE -	BALL FIELDS, PARKING, ACCESSORY FACILITIES
PROPOSED AMENITIES -	PICNIC SHELTER (4)
	+/- 900 SF, 30' X 30'
	RESTROOM / CONCESSION BUILDING (1)
	+/- 1,680 SF
	250' BALL FIELDS (2)
	DUGOUTS (4)
	BLEACHERS (4)
	SCOREKEEPERS BOX (2)
	BOARDWALK 'A' (234 LF)
	BOARDWALK 'B' (219 LF)
PARKING -	REQUIRED - TO BE DETERMINED BY THE DEVELOPMENT SERVICES DIRECTOR OF CURRITUCK COUNTY, OR A DESIGNEE (PER UDO SECTION 5.1.3.E)
	PROPOSED - 134 PARKING SPACES
	MINIMUM DIMENSIONS - 10' X 18'
BICYCLE PARKING -	PROPOSED - 2 SPACES
WETLANDS -	AREA OF WETLANDS WITHIN PARK - +/- 273,329 SF (+/- 6.27 AC)
	AREA OF WETLANDS WITHIN SITE - +/- 109,511 SF (+/- 2.51 AC)
	AREA OF WETLANDS TO BE DISTURBED - +/- 3,885 SF (0.089 AC)

CALL BEFORE YOU DIG!
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NOT FOR RECORDING
NOT FOR PERMITTING
NOT FOR RECORDATION
NOT FOR CONVEYANCE
NOT FOR REGULATORY APPROVAL
PRELIMINARY PLAT
NOT FOR RECORDATION
NOT FOR CONVEYANCE
NOT FOR REGULATORY APPROVAL
NOT FOR PERMITTING
NOT FOR BIDDING
NOT FOR CONSTRUCTION
Preliminary

ISSUE/REVISIONS:

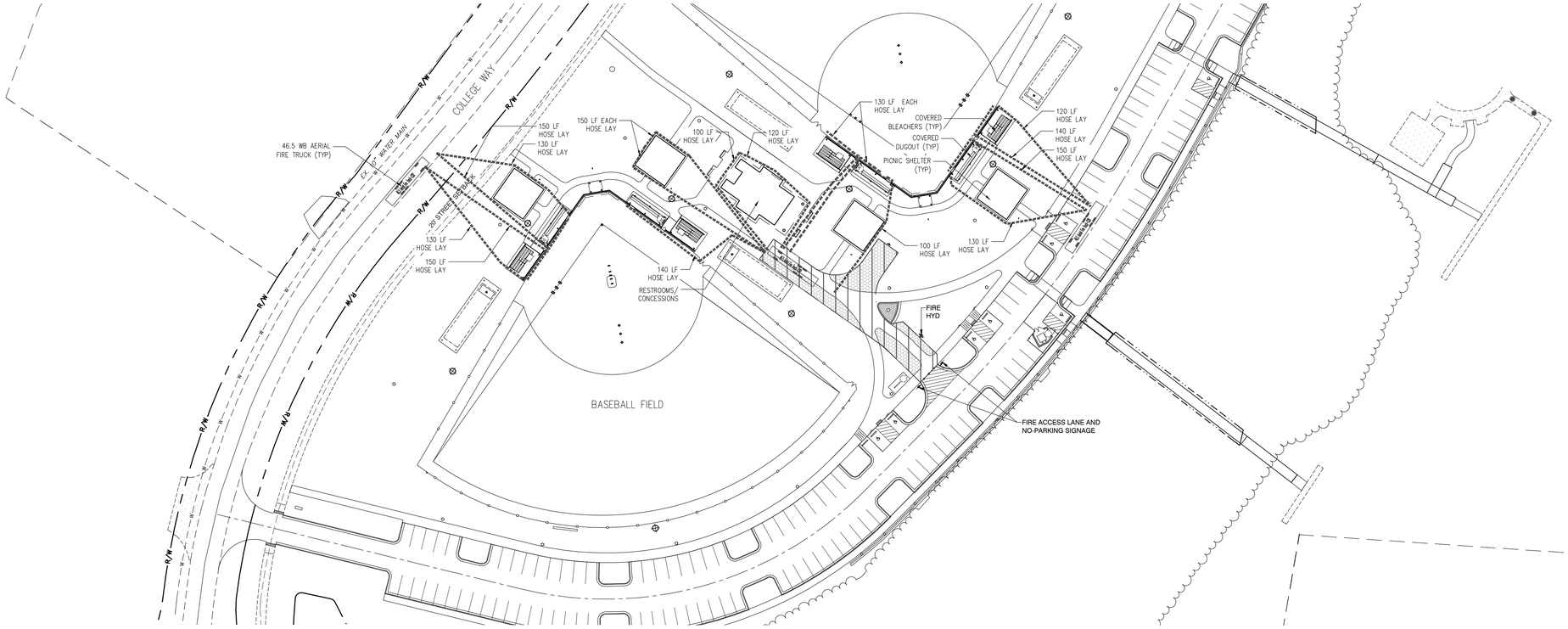
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

SITE PLAN

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.01

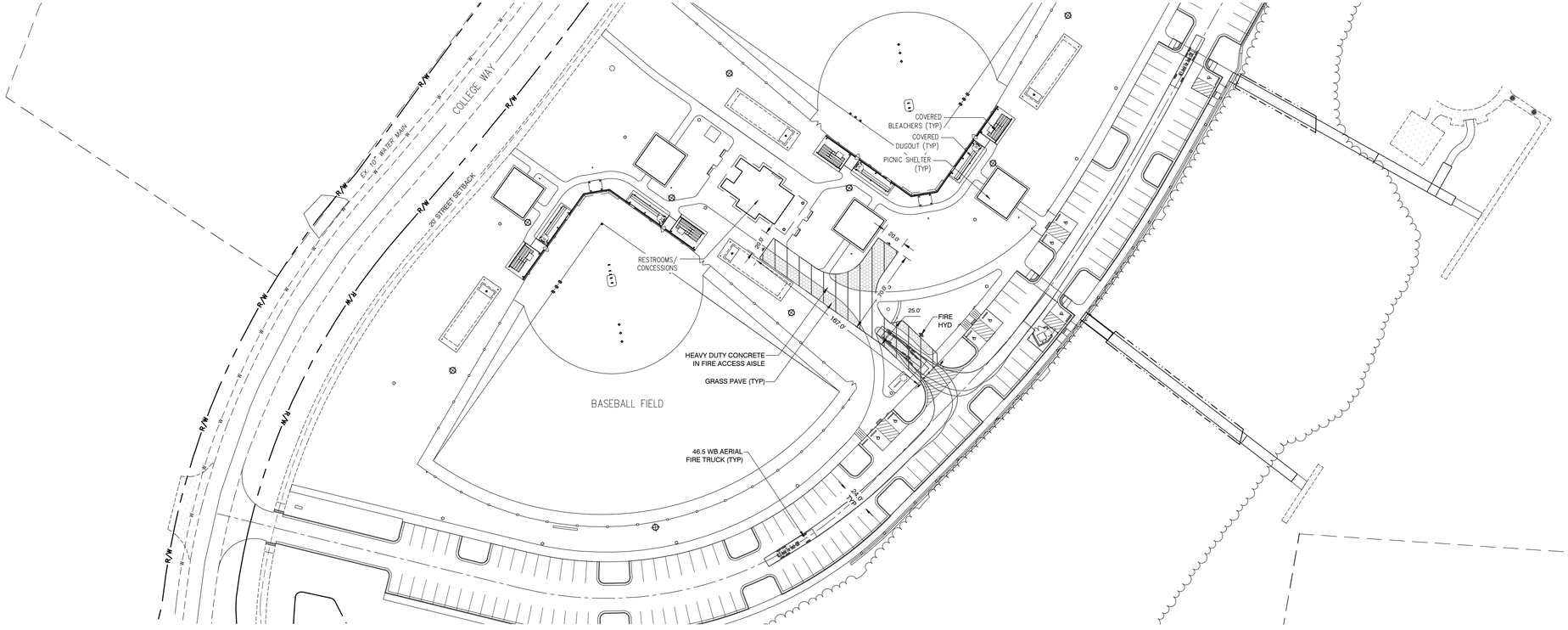
Do Not Use for Construction - PRELIMINARY



FIRE HOSE LAY DISTANCES

SCALE: 1:50

2



FIRE APPARATUS ACCESS PATH VEHICLE TRACKING

SCALE: 1:50

1

FIRE PROTECTION NOTES:

1. UNLESS NOTED, ALL RADII ON THIS PLAN ARE MEASURED AT FACE OF CURB.
2. MINIMUM INSIDE TURNING RADIUS OF 28' MUST BE MAINTAINED THROUGHOUT THE SITE FOR THE FIRE DEPARTMENT ACCESS LANE/PATH SHOWN ON THIS PLAN.
3. ALL FIRE APPARATUS ACCESS ROADS/STREETS SHALL BE HEAVY DUTY ASPHALT PAVING WITH MINIMUM 80,000 LB LOAD CAPACITY.
4. FIRE ACCESS TURNAROUND ROUTE SHALL BE HEAVY DUTY CONCRETE SIDEWALK AND GRASS PAVE WITH MINIMUM 80,000 LB LOAD CAPACITY.
5. ALL PORTIONS OF FIRST FLOOR OF ROOFED STRUCTURES SHALL BE MAXIMUM 150 LF HOSE LAY FROM FIRE TRUCK ACCESS PATHS.

FDC:

HOSE LAY:

46.5' WB AERIAL FIRE TRUCK:

NC License: F-0334
Rivers & ASSOCIATES, INC. Since 1918
riversandassociates.com
Engineers
Planners
Surveyors
Landscape Architects
Six Forks Place III Ste. 230
353 E. Six Forks Road
Raleigh, NC 27609
919.594.1626

Preliminary NOT FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

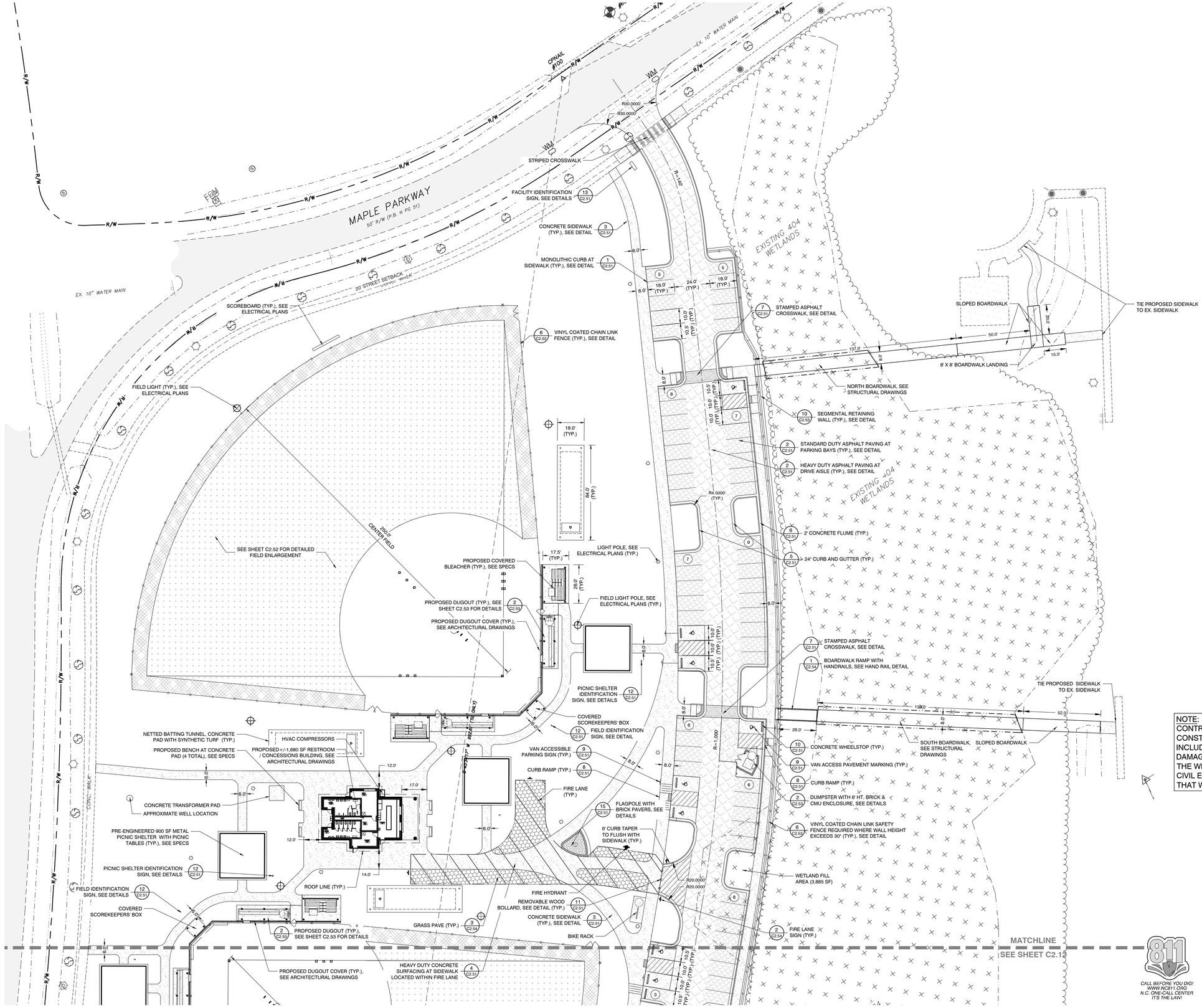
FIRE APPARATUS ACCESS PLAN

DESIGNED BY:	PRM/CK
DRAWN BY:	TAH
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN

SHEET No.

C2.02

Do Not Use for Construction - PRELIMINARY



N/F
CURRITUCK COUNTY
PIN: 8977-84-0404
PARCEL ID#: 005200000170000
D.B. 1062 PG. 356
BOOK K PG. 150
ZONING: GB, HI
58.20 AC +/- (TOTAL)
12.27 AC +/- (SURVEY AREA)

NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

SITE HATCH LEGEND
- CONCRETE
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- GRASS PAVE AT FIRE LANE
- FIRE LANE

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N.C. ONE-CALL CENTER
IT'S THE LAW!

30' 0 15' 30'
SCALE 1 inch = 30 ft

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Planners
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Landscape Architects

Preliminary
NOT TO BE USED FOR CONSTRUCTION
PRELIMINARY PLANS NOT FOR CONSTRUCTION OR RECORDATION
NC REGISTERED LANDSCAPE ARCHITECT
7757
SEAL

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA
ENLARGED SITE PLAN - NE

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN

SHEET No.
C2.11

Do Not Use for Construction - PRELIMINARY

PICNIC SHELTER IDENTIFICATION SIGN, SEE DETAILS (12 C2.51)

PROPOSED PRE-ENGINEERED METAL PICNIC SHELTER WITH PICNIC TABLES (TYP.), SEE SPECS

PROPOSED COVERED BLEACHER (TYP.), SEE SPECS

NETTED BATTING TUNNEL, CONCRETE PAD WITH SYNTHETIC TURF (TYP.)

SEE SHEET C2.52 FOR DETAILED FIELD ENLARGEMENT

DETECTABLE WARNING STRIP (TYP.)

VAN ACCESSIBLE PARKING SIGN (TYP.) (9 C2.51)

CONCRETE WHEELSTOP (TYP.) (3 C2.51)

LIGHT POLE, SEE ELECTRICAL PLANS (TYP.)

FIELD LIGHT POLE (TYP.), SEE ELECTRICAL PLANS

SCOREBOARD (TYP.), SEE ELECTRICAL PLANS

VINYL COATED CHAIN LINK FENCE (TYP.), SEE DETAIL (6 C2.53)

MONOLITHIC CURB AT SIDEWALK (TYP.), SEE DETAIL (1 C2.51)

CONCRETE SIDEWALK (TYP.), SEE DETAIL (3 C2.51)

24" CURB AND GUTTER (TYP.), SEE DETAIL (5 C2.51)

FACILITY IDENTIFICATION SIGN, SEE DETAILS (13 C2.51)

CURB RAMP (TYP.) (8 C2.51)

STRIPED CROSSWALK

VINYL COATED CHAIN LINK SAFETY FENCE REQUIRED WHERE WALL HEIGHT EXCEEDS 30" (TYP.), SEE DETAIL (6 C2.53)

SEGMENTAL RETAINING WALL (TYP.), SEE DETAIL (10 C2.53)

24" CURB AND GUTTER (TYP.) (5 C2.51)

STANDARD DUTY ASPHALT PAVING AT PARKING BAYS (TYP.), SEE DETAIL (2 C2.51)

HEAVY DUTY ASPHALT PAVING AT DRIVE AISLE (TYP.), SEE DETAIL (2 C2.51)

SEE SHEET C2.11
MATCHLINE

EXISTING 404 WETLANDS

WET POND, SEE STORMWATER SHEETS

N/F
CRAWFORD HOLDINGS, INC.
D.B. 1773 PG. 131
PIN: 8977-73-5737
PARCEL ID#: 005200000240000
ZONING: GB

N 86°33'04" W 556.42'

N 38°52'32" E 180.80'

S 22°16'49" W 183.84'

U.S. HWY. NO. 158
(100' PUBLIC R/W - BOOK K PG. 150)

COLLEGE WAY
60' R/W (P.B. N PG 51)

SITE HATCH LEGEND
- CONCRETE
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- GRASS PAVE AT FIRE LANE
- FIRE LANE

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SCALE 1 inch = 30 ft

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PRELIMINARY PLANS
NOT FOR CONSTRUCTION
7558
NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL

ISSUE/REVISIONS:

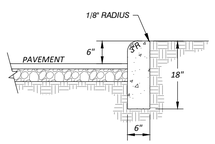
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

ENLARGED SITE PLAN - SW

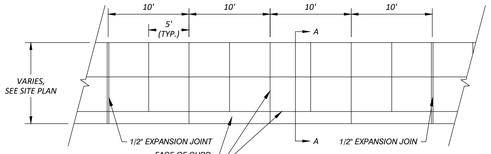
DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.12

Do Not Use for Construction - PRELIMINARY

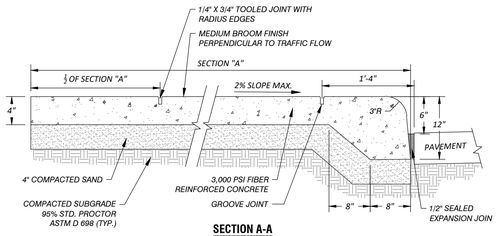


NOTES:
1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS, EXCEPT THAT A 15-FOOT SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT A 10-FOOT INTERVAL. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS AHLL BE SPACED AT 90 FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
4. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3,600 P.S.I IN 28 DATS.
5. TOP 6" OF SUBGRADE BENEATH THE CURB SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.

VERTICAL CURB DETAIL



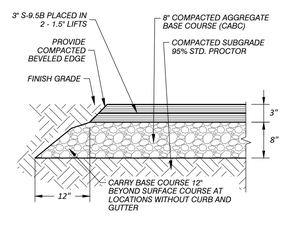
PLAN



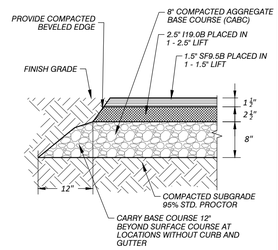
SECTION A-A

NOTES:
1) A GROOVE JOINT 1" DEEP WITH 1/3" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 40' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
2) ALL CONCRETE TO BE 3,000 PSI COMPRESSIVE STRENGTH.
3) SEE SITE PLAN FOR LOCATION.

1 VERTICAL AND MONOLITHIC SIDEWALK CURB
N.T.S.

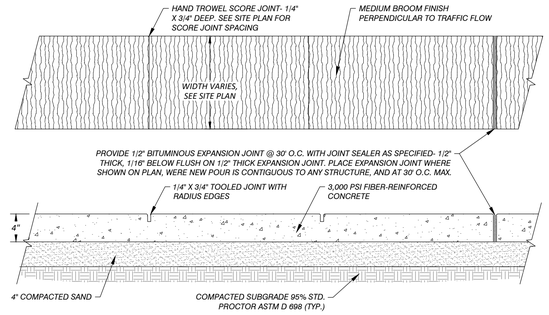


LIGHT DUTY ASPHALT PAVING SECTION

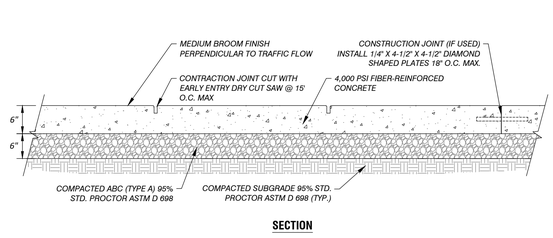


HEAVY DUTY ASPHALT PAVING SECTION

2 ASPHALT PAVEMENT
N.T.S.



3 CONCRETE SIDEWALK
N.T.S.

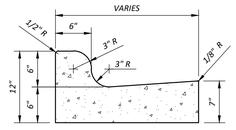


SECTION

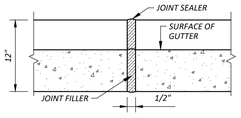
NOTES:
1. CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 330.
2. CONTRACTOR TO SUBMIT JOINTING PLAN TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OF PAVEMENT.

4 VEHICULAR CONCRETE
N.T.S.

NOTES:
1. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, EXCEPT THAT 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-½" SHALL BE OBTAINED.
3. ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT FILLER.
4. EXPANSION JOINTS SHALL BE SPACED AT 90' INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
5. ALL CURB AND GUTTERS ARE TO BE POURED WITH CLASS 'A' CONCRETE (3,000 PSI)
6. FLEXIBLE FORMS ARE TO BE USED WHEN RADII IS LESS THAN 2000'
7. MATCH WIDTH OF EXISTING CURB & GUTTER FOR ALL PATCHING.
8. REMOVE & REPLACE CURB & GUTTER TO NEAREST CONSTRUCTION JOINT.

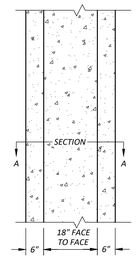


COMBINATION CURB AND GUTTER

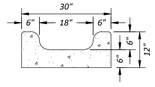


TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER

5 STANDARD CURB AND GUTTER
N.T.S.

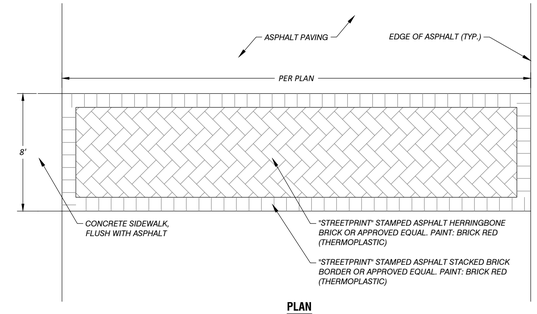


PLAN VIEW



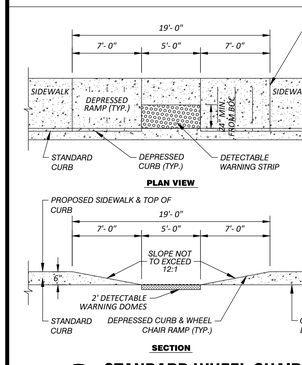
SECTION A-A

6 18 IN. CONCRETE FLUME
N.T.S.

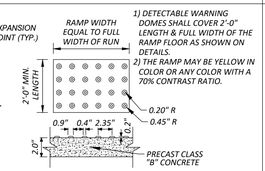


PLAN

7 STAMPED ASPHALT CROSSWALK
N.T.S.

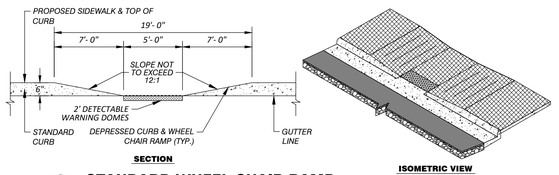


PLAN VIEW



DETECTABLE WARNING DOMES

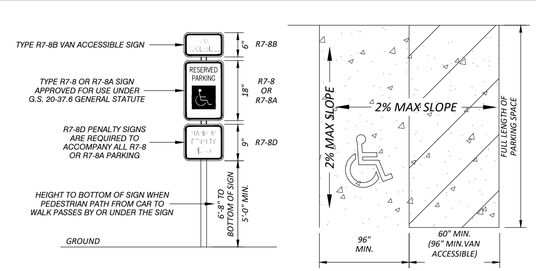
1) DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH & FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON DETAILS.
2) THE RAMP MAY BE YELLOW IN COLOR OR ANY COLOR WITH A 70% CONTRAST RATIO.



SECTION

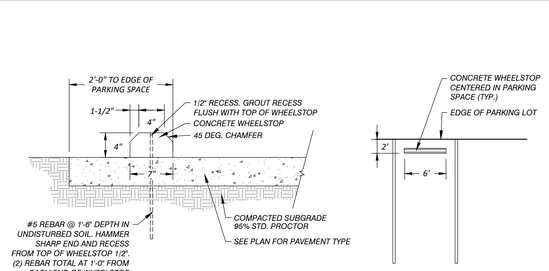
ISOMETRIC VIEW

8 STANDARD WHEEL CHAIR RAMP
N.T.S.



NOTES:
1. HANDICAPPED PARKING SPACE SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.
2. VAN ACCESSIBLE SPACES AND ACCESS AISLES SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 98".
3. MINIMUM DIMENSIONS OF ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL COMPLY WITH ANSI/ICC A117.1-2017.

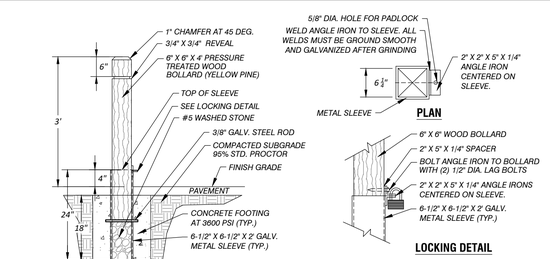
9 HANDICAPPED PARKING AND SIGNAGE
N.T.S.



SECTION

PLAN

10 CONCRETE WHEEL STOP
N.T.S.



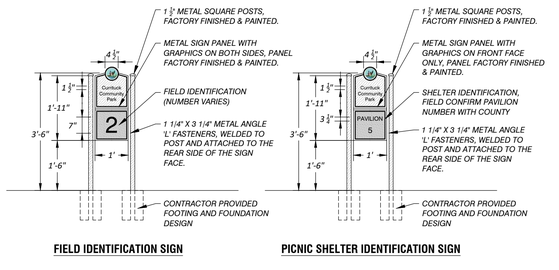
SECTION

PLAN

LOCKING DETAIL

NOTES:
1. ALL METAL COMPONENTS ARE TO BE FABRICATED, GROUND SMOOTH, AND HOT-DIPPED GALVANIZED.
2. ALL METAL COMPONENTS MUST HAVE A SMOOTH FINISHED, GALVANIZED SURFACE.
3. SPACER AND ANGLE IRON TO BE FLUSH, MOUNTED AT CENTER OF BOLLARD.
4. HOLES FOR PADLOCK MUST LINE UP WHEN BOLLARD IS INSERTED INTO SLEEVE.
5. ALL WOOD SHALL BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE @ NET RETENTION OF 0.40 LBS/CF. WOOD SHALL BE DRIED AFTER TREATMENT.

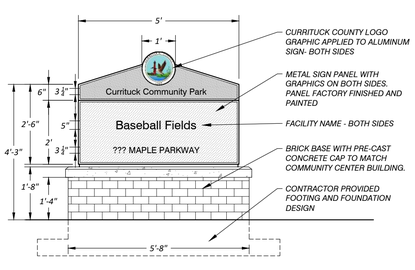
11 CONCRETE WHEEL STOP
N.T.S.



FIELD IDENTIFICATION SIGN

PICNIC SHELTER IDENTIFICATION SIGN

12 IDENTIFICATION SIGNS
N.T.S.



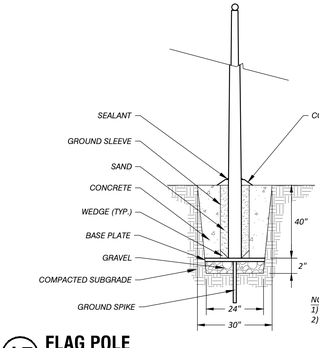
13 FACILITY IDENTIFICATION SIGN
N.T.S.

Currituck Community Park
Baseball and Softball Complex
Currituck County, North Carolina

Landscape Architect: Rivers & Associates, Inc.
Civil Engineer: Rivers & Associates, Inc.
Architect: Intrepid Architecture

General Contractor: Name Here

14 TEMPORARY CONSTRUCTION SIGN
N.T.S.



NOTES:
1) FLAG POLE HEIGHT SHALL BE 30'
2) SEE SPECIFICATIONS FOR OTHER REQUIREMENTS

15 FLAG POLE
N.T.S.

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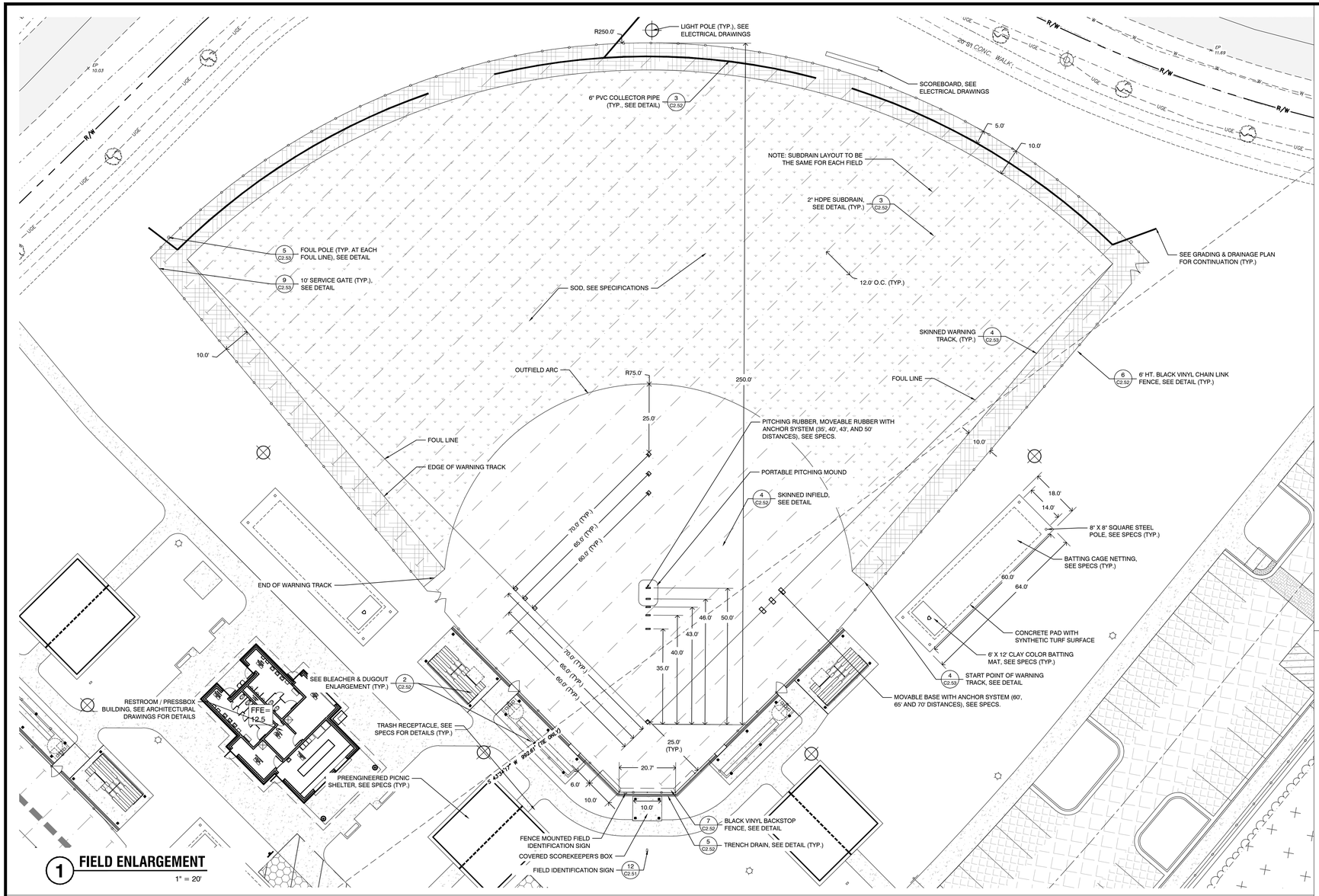
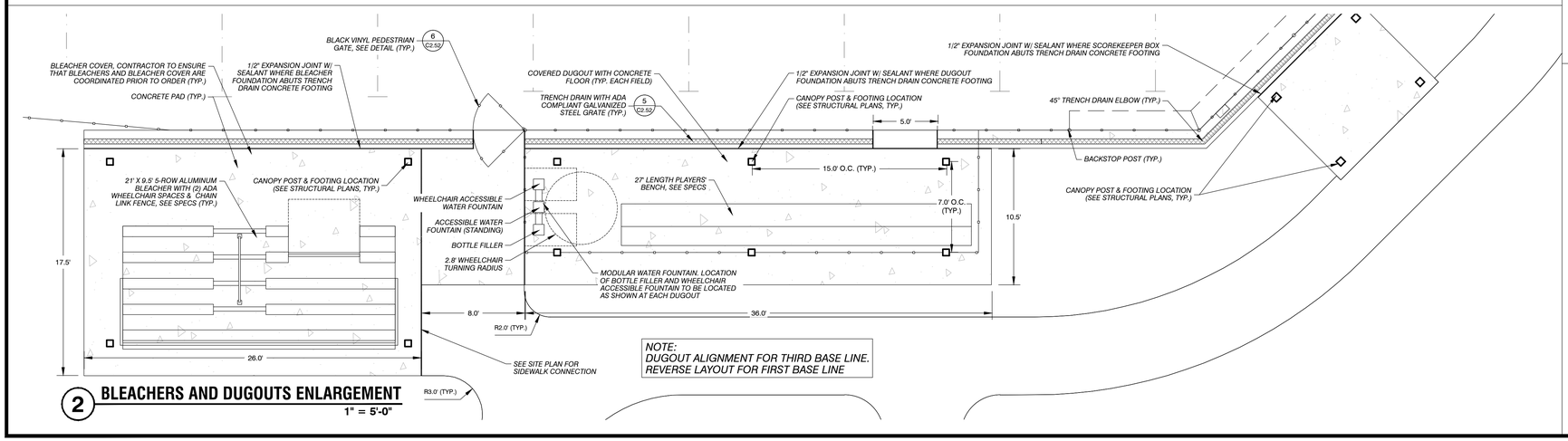
NOT FOR RECORDING
NOT FOR PERMITTING
NOT FOR REGULATORY APPROVAL
NOT FOR RECORDATION
NOT FOR PURCHASE
NOT FOR CONVEYANCE
NOT FOR LEASE
NOT FOR NEGOTIATION
NOT FOR SALE



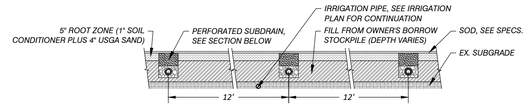
1 FIELD ENLARGEMENT

1" = 20'

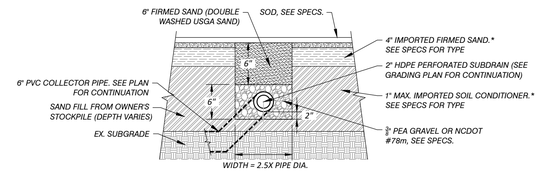


2 BLEACHERS AND DUGOUTS ENLARGEMENT

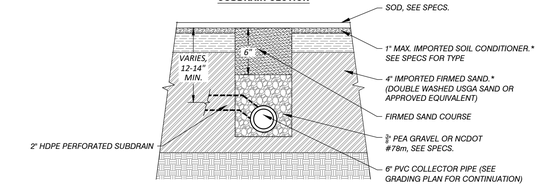
1" = 5'-0"



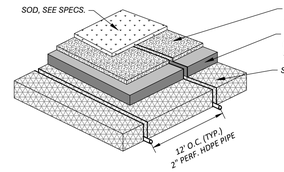
FIELD SECTION



SUBDRAIN SECTION



COLLECTOR PIPE SECTION

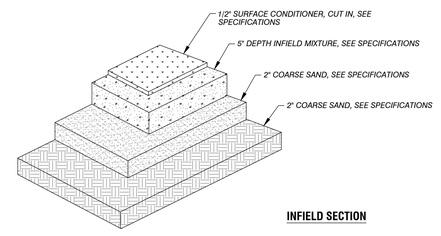


NOTES:
DETAIL ILLUSTRATES SAND AND SOIL CONDITIONER MATERIALS BEFORE MIXING PROCESS.

MATERIAL SHALL BE MIXED TO CREATE ROOT ZONE MIXTURE. SEE ATHLETIC FIELD TURF & GRASSES SPECIFICATIONS FOR MORE INFORMATION

3 FIELD SUBDRAIN DETAIL

N.T.S. N.T.S.



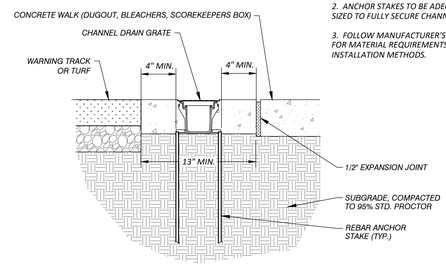
INFIELD SECTION

4 SKINNED INFIELD MIXTURE

N.T.S. N.T.S.

NOTE:

1. *THE GRATE SHOULD BE RECESSED BELOW GRADE A MINIMUM OF 1/8".*
2. *ANCHOR STAKES TO BE ADEQUATELY SIZED TO FULLY SECURE CHANNEL DRAIN.*
3. *FOLLOW MANUFACTURER'S GUIDELINES FOR MATERIAL REQUIREMENTS AND INSTALLATION METHODS.*



5 TRENCH DRAIN

N.T.S. N.T.S.
X-#

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NOT FOR REGULATORY APPROVAL
NOT FOR PURCHASE
NOT FOR LAND TRANSFER

ISSUE/REVISIONS:

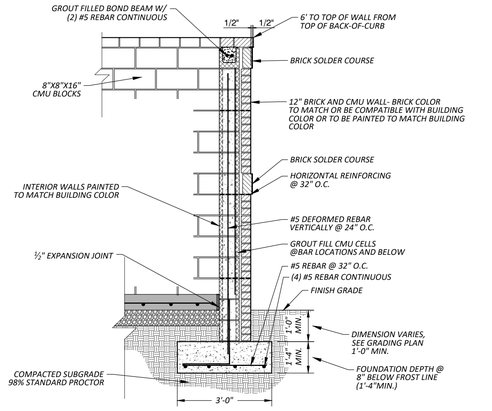
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

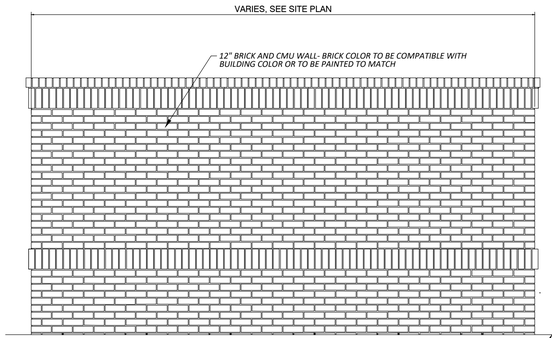
SITE DETAILS

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.52

Do Not Use for Construction - PRELIMINARY



SECTION



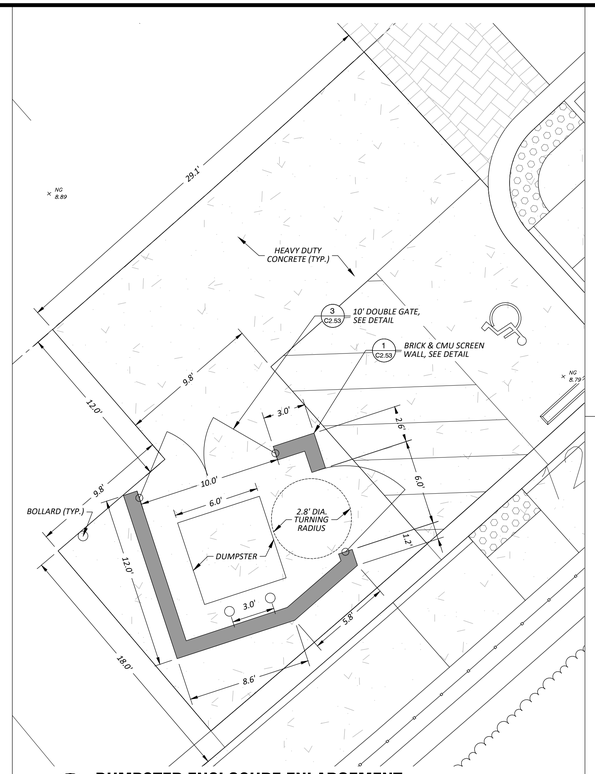
ELEVATION (SIDE)

NOTE: THIS TYPICAL WALL DETAIL IS FOR REFERENCE ONLY. THE PROFESSIONAL ENGINEER'S PE SEAL ON THESE PLANS DOES NOT INCLUDE ANY WALL DESIGN. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PREPARED AND SEALED BY LICENSED NC STRUCTURAL ENGINEER FOR APPROVAL.

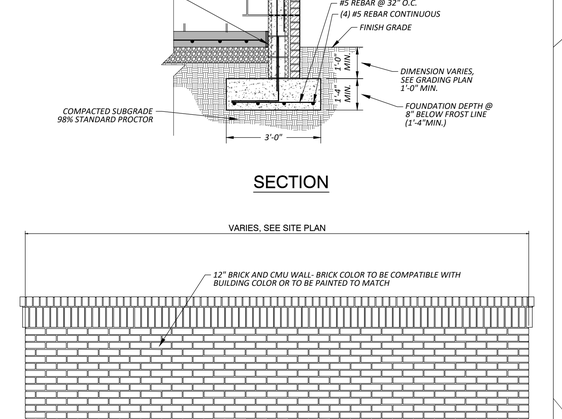
NOTES

REFER TO SITE PLAN FOR LAYOUT AND GRADING OF CONCRETE PAD. VERIFY ACTUAL DIMENSIONS IN FIELD BEFORE CONSTRUCTION.

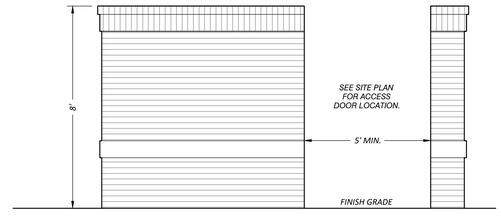
1 8 FT. HT. BRICK AND CMU SCREEN WALL
N.T.S.



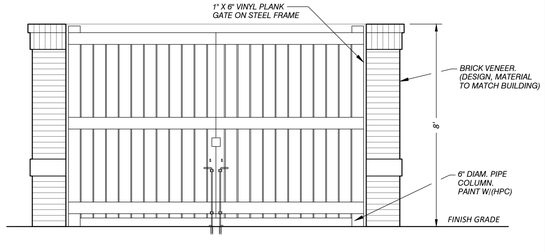
2 DUMPSTER ENCLOSURE ENLARGEMENT
1" = 5'-0"



GATE POST SECTION

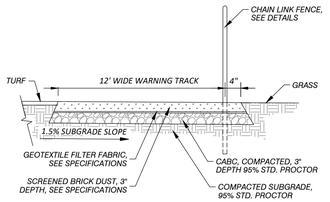


SIDE ELEVATION



FRONT ELEVATION

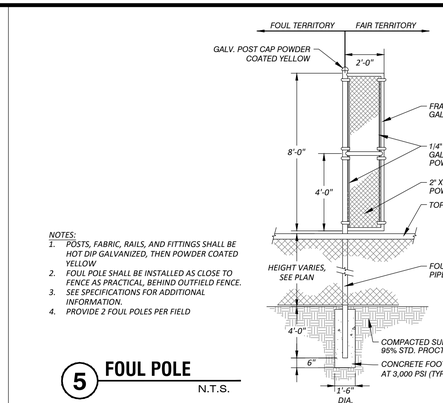
3 DUMPSTER GATE DETAILS
N.T.S.



SECTION

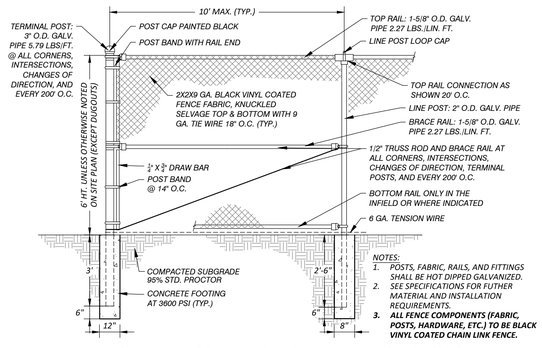
NOTES:
1. SEE SITE PLAN FOR LOCATION.
2. SEE GRADING PLAN FOR FINISHED GRADES.

4 BALLFIELD WARNING TRACK
N.T.S.



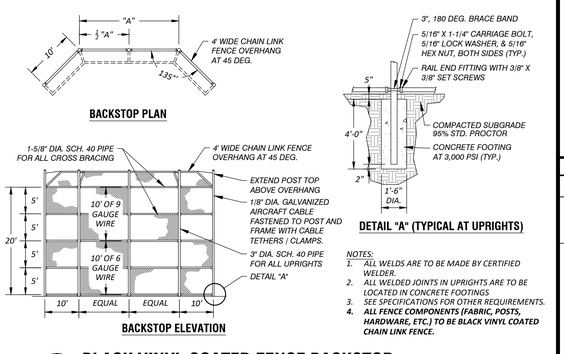
NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIP GALVANIZED, THEN POWDER COATED YELLOW
2. FOUL POLE SHALL BE INSTALLED AS CLOSE TO FENCE AS PRACTICAL, BEHIND OUTFIELD FENCE.
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. PROVIDE 2 FOUL POLES PER FIELD

5 FOUL POLE
N.T.S.



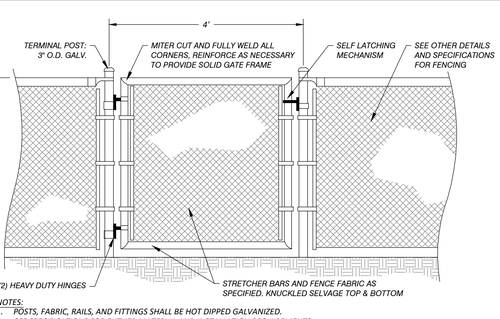
NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
2. SEE SPECIFICATIONS FOR FUTHER MATERIAL AND INSTALLATION REQUIREMENTS.
3. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

6 BLACK VINYL COATED CHAIN LINK FENCE SECTION
N.T.S.



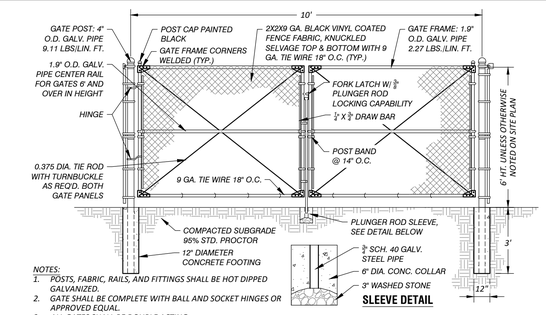
NOTES:
1. ALL WELDS ARE TO BE MADE BY CERTIFIED WELDER.
2. ALL WELDED JOINTS IN UPRIGHTS ARE TO BE LOCATED IN CONCRETE FOOTINGS
3. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.
4. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

7 BLACK VINYL COATED FENCE BACKSTOP
N.T.S.



NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
2. SEE SPECIFICATIONS FOR FUTHER MATERIAL AND INSTALLATION REQUIREMENTS.
3. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

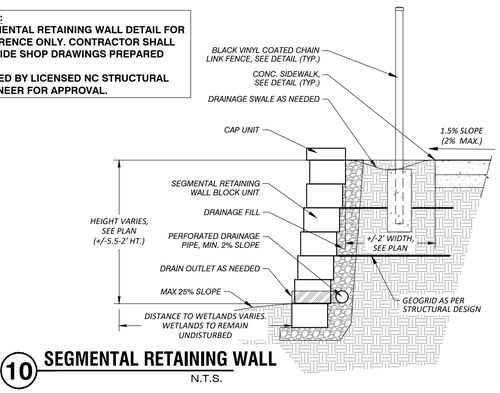
8 PEDESTRIAN GATE FOR CHAIN LINK FENCE
N.T.S.



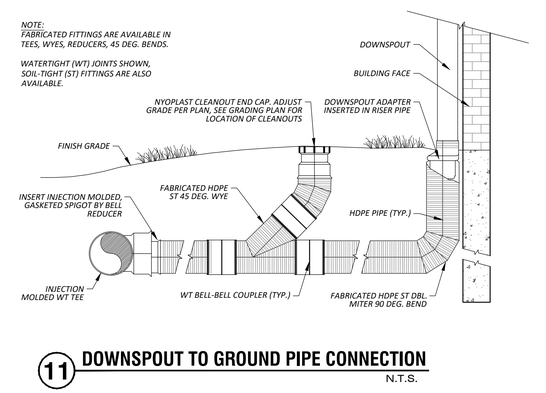
NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
2. GATE SHALL BE COMPLETE WITH BALL AND SOCKET HINGES OR APPROVED EQUAL.
3. ALL GATES SHALL BE DOUBLE ACTING.
4. SEE SPECIFICATIONS FOR FURTHER MATERIAL AND INSTALLATION REQUIREMENTS.
5. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

9 VINYL COATED SERVICE GATE FOR CHAIN LINK FENCE
N.T.S.

NOTE:
SEGMENTAL RETAINING WALL DETAIL FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PREPARED AND SEALED BY LICENSED NC STRUCTURAL ENGINEER FOR APPROVAL.



10 SEGMENTAL RETAINING WALL
N.T.S.



11 DOWNSPOUT TO GROUND PIPE CONNECTION
N.T.S.

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353 Six Forks Road
Raleigh, NC 27609
919.594.1626
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PRELIMINARY PLANS
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
Preliminary
NOT FOR CONSTRUCTION

ISSUE/REVISIONS:

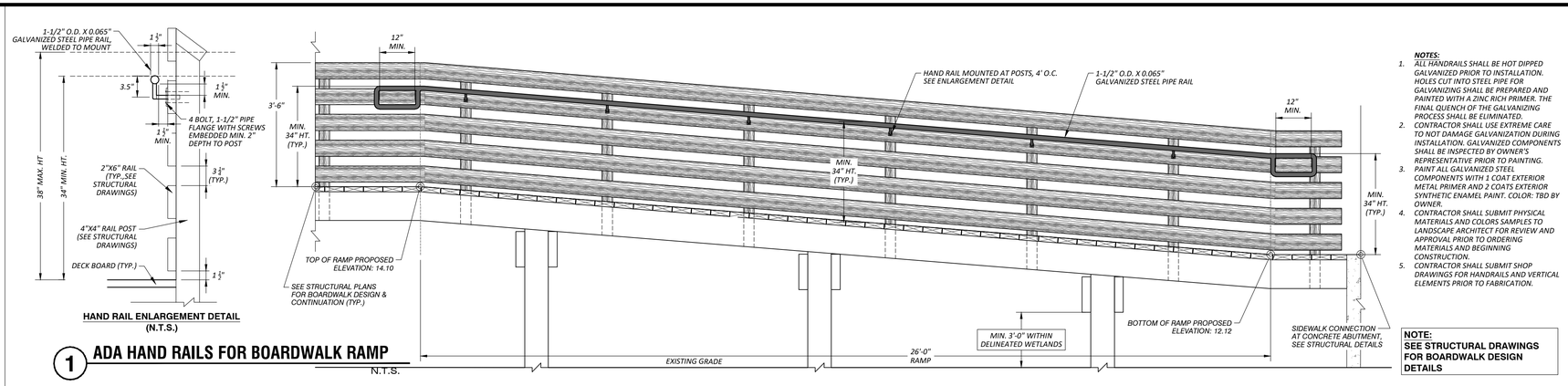
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

SITE DETAILS

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.53

Do Not Use for Construction - PRELIMINARY

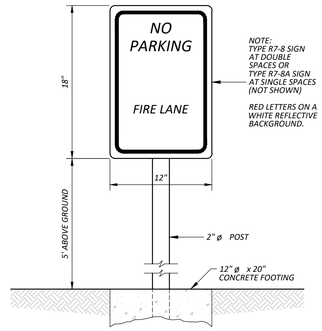


NOTES:

1. ALL HANDRAILS SHALL BE HOT DIPPED GALVANIZED PRIOR TO INSTALLATION. HOLES CUT INTO STEEL PIPE FOR GALVANIZING SHALL BE PREPARED AND PAINTED WITH A ZINC RICH PRIMER. THE FINAL QUENCH OF THE GALVANIZING PROCESS SHALL BE ELIMINATED.
2. CONTRACTOR SHALL USE EXTREME CARE TO NOT DAMAGE GALVANIZATION DURING INSTALLATION. GALVANIZED COMPONENTS SHALL BE INSPECTED BY OWNER'S REPRESENTATIVE PRIOR TO PAINTING.
3. PAINT ALL GALVANIZED STEEL COMPONENTS WITH 1 COAT EXTERIOR METAL PRIMER AND 2 COATS EXTERIOR SYNTHETIC ENAMEL PAINT. COLOR: TBD BY OWNER.
4. CONTRACTOR SHALL SUBMIT PHYSICAL MATERIALS AND COLORS SAMPLES TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR HANDRAILS AND VERTICAL ELEMENTS PRIOR TO FABRICATION.

NOTE:
SEE STRUCTURAL DRAWINGS FOR BOARDWALK DESIGN DETAILS

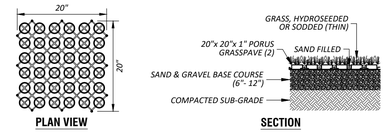
1 ADA HAND RAILS FOR BOARDWALK RAMP
N.T.S.



NOTE:
TYPE R7-8 SIGN AT DOUBLE SPACES OR TYPE R7-8A SIGN AT SINGLE SPACES (NOT SHOWN)

RED LETTERS ON A WHITE REFLECTIVE BACKGROUND.

2 FIRE LANE SIGN
N.T.S.



3 FIRE LANE GRASS PAVE
N.T.S.

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NOT FOR PURCHASING
NOT FOR LAND TRANSFER
NOT FOR RECORDATION
NOT FOR SALES
NOT FOR RECORDATION
NOT FOR RECORDATION
NOT FOR RECORDATION

INV. 5.89' (W)
INV. 5.51' (E-OUT)

EX. 6" PVC

EX. 8" PVC

EX. MHSS #3
RIM: 10.94
INV. 4.50' (NW)
INV. 4.40' (E-OUT)

INV. IN=4.60 (S-IN)

EX. 6" PVC

SS MH #100
TOP=11.00
INV=5.29

SS MH #101
TOP=11.00
INV=6.00

BORE & JACK SANITARY SEWER PIPE INSTALLATION ACROSS THE ROAD. USE 16" STEEL CASING PIPE, EXTEND TO A MINIMUM OF 10' FROM EXISTING WATER LINE ON THE SOUTH SIDE

EX. 10" WATER MAIN

FIRM

MAPLE PARKWAY
50' R/W (D.B. N PG 51)

CPNAIL
#6100

TBM
#6091

100 LF 8" PVC SS @ 0.40% SLOPE

148 LF 8" PVC SS @ 0.42% SLOPE

20' STREET SETBACK

EX. 10" WATER MAIN

WM

TAP &10X6 TEE

6" GATE VALVE

22.5° BEND

N/F
CURRITUCK COUNTY
D.B. 1062 PG. 356
BOOK M PG. 97
PIN: 8977-74-3776
PARCEL ID#: 005200000250000
ZONING: HI

SS MH #102
TOP=11.20
INV=6.80

144 LF 8" PVC SS @ 0.40% SLOPE

SS MH #103
TOP=12.05 (+/-, FLUSH WITH WALKWAY)
INV.=7.22'

56 LF 4" PVC @ 2% SLOPE

160 LF 8" DIP SS @ 0.40% SLOPE

EXISTING 404 WETLANDS

6" C900 PVC WATERLINE

1-1/2" PVC WATERLINE (TYP.)

WATER FOUNTAIN

3/4" PVC WATERLINE

SS CLEANOUT

3/4" BALL VALVE IN METER VAULT (TYP.)

WATER FOUNTAIN

3/4" BALL VALVE IN METER VAULT (TYP.)

COLLEGE WAY
60' R/W (D.B. N PG 51)

20' STREET SETBACK

EX. 6" WATER MAIN

CONC. WALK

TBM
#6090

1-1/2" RPZ IN HOT BOX (SEE DETAIL)

1-1/2" TYPE -K DOMESTIC WATER SERVICE METER (BY CURRITUCK CO. PUBLIC UTILITY DEPT.)

1-1/2" TAP

FIRE HYDRANT ASSEMBLY

N/F
CURRITUCK COUNTY
PIN: 8977-84-0404
PARCEL ID#: 005200000170000
D.B. 1062 PG. 356
BOOK K PG. 150
ZONING: GB, HI
58.20 AC +/- (TOTAL)
12.27 AC +/- (SURVEY AREA)

EXISTING 404 WETLANDS

N/F
CURRITUCK COUNTY
D.B. 1062 PG. 356
PIN: 8977-83-1862
PARCEL ID#: 005200000180000
ZONING: GB

N/F
CURRITUCK COUNTY
D.B. 1170 PG. 359
PIN: 8977-83-0745
PARCEL ID#: 005200000190C
ZONING: GB

EIR

N 86°33'04" W 556.42'

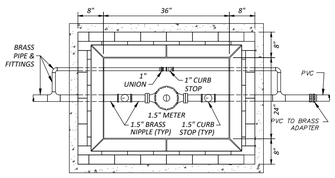
S 3°25'16" W 180.84'

N 3°26'32" E 180.86'

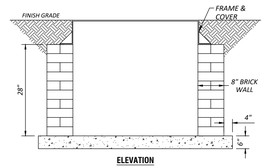
N/F
CRAWFORD HOLDINGS, INC.
D.B. 1773 PG. 131
PIN: 8977-73-5737
PARCEL ID#: 005200000240000
ZONING: GB

EX. BRICK 20' STREET SETBACK SIGN

U.S. HWY. NO. 158
(100' PUBLIC R/W - BOOK K PG. 150)

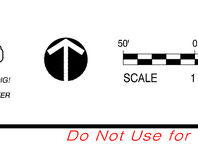


PLAN

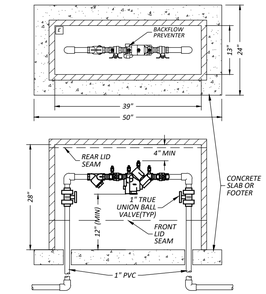


ELEVATION

1 1.5" METER & VAULT
N.T.S.



NOTES :
1) ALL DIMENSIONS ARE APPROXIMATED IN INCHES.
2) RECOMMENDED SLAB SIZE SHALL BE 50"L x 24"W x 4" MINIMUM THICKNESS.
3) "E" INDICATES THE ELECTRICAL RECEPTACLE. IT SHALL BE MOUNTED A MINIMUM OF 18" ABOVE THE SLAB.
4) HEAT IS PROVIDED BY A 90W, 120V, SINGLE PHASE HEAT TRACE CABLE (18'-0" LENGTH).
5) USE SIMILAR ENCLOSURE FOR IRRIGATION BOOSTER PUMP.



2 RPZ & ENCLOSURE
N.T.S.
WATR-27

CALL BEFORE YOU DIG!
WWW.NC811.ORG
N.C. ONE-CALL CENTER
IT'S THE LAW!

SCALE 1 inch = 50 ft

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353 E. Six Forks Road
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NORTH CAROLINA PROFESSIONAL SEAL 032101 ENGINEER BRIAN RIVERS
Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

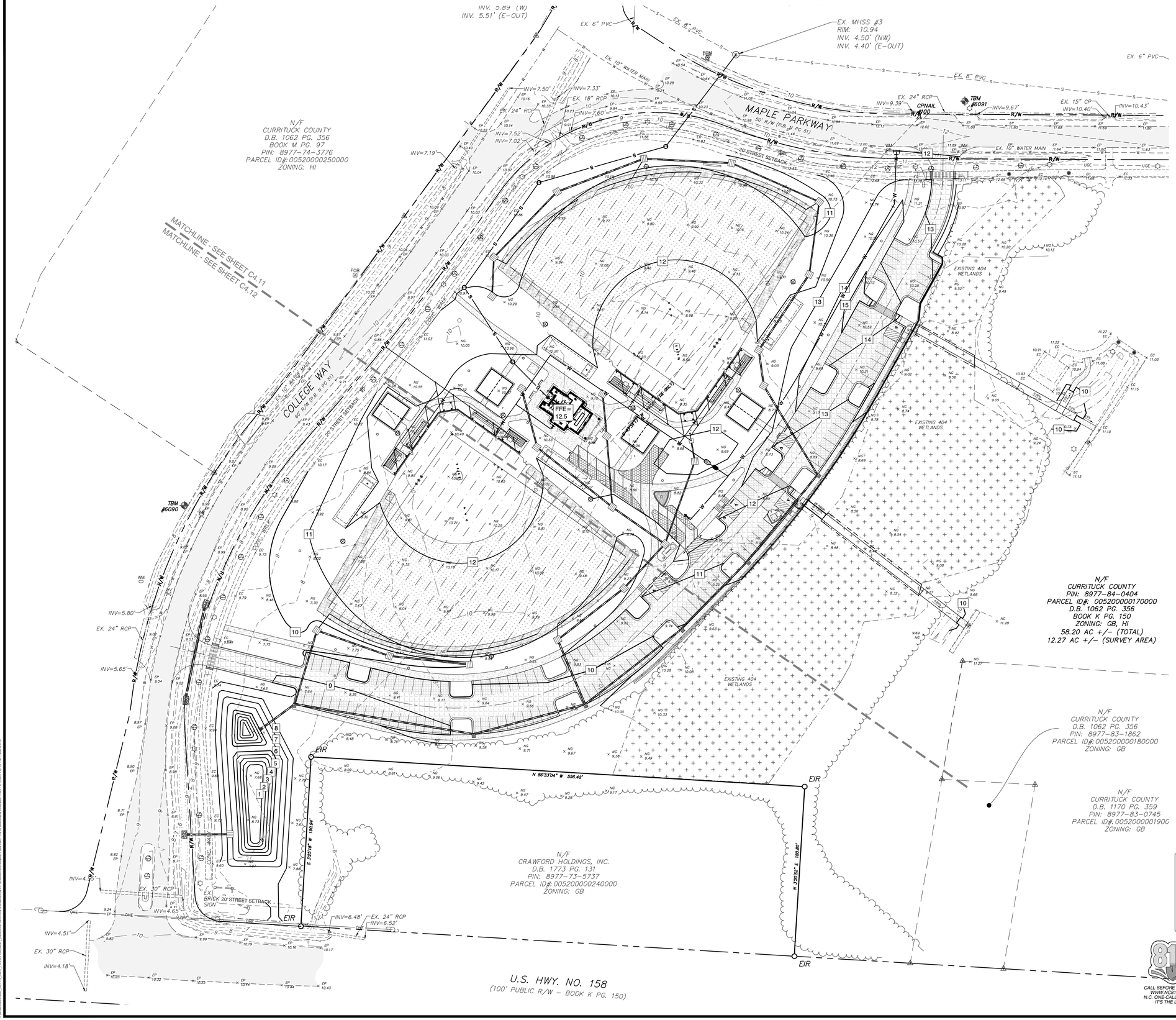
CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

UTILITIES PLAN

DESIGNED BY:	BR
DRAWN BY:	TAH, SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C3.01

Do Not Use for Construction - PRELIMINARY

S:\RIVERS\PROJECTS\2022109\CAD\PLANS\UTILITIES\2022109_UTILITIES.DWG 7/1/2025 3:58:38 PM JOHN DOE



NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

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SCALE 1 inch = 50 ft (50' 0 25' 50')

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NORTH CAROLINA PROFESSIONAL SEAL 032191 ENGINEER BRIAN RIVERS

Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

GRADING & DRAINAGE PLAN

DESIGNED BY:	BR, SBF
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.01

Do Not Use for Construction - PRELIMINARY

NOTE:
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STRUCTURE TABLE	
NAME	DETAILS
CB-301	RIM= 8.90' INV= 5.13' (E) INV= 5.13' (N) INV= 5.13' (SW-OUT)
CB-302	RIM= 9.38' INV= 5.74' (E) INV= 5.74' (W-OUT)
CB-303	RIM= 9.82' INV= 6.13' (NE) INV= 6.13' (NW) INV= 6.13' (W-OUT)
CB-304	RIM= 10.40' INV= 6.54' (NE) INV= 6.54' (SW-OUT)
CB-305	RIM= 11.29' INV= 6.86' (NE) INV= 6.86' (SW-OUT)
CB-306	RIM= 12.35' INV= 7.25' (NW) INV= 7.24' (SW-OUT)
DI-2	RIM= 9.00' INV= 5.41' (E) INV= 5.41' (S-OUT)
DI-3	RIM= 9.25' INV= 5.72' (E) INV= 5.71' (W-OUT)
DI-4	RIM= 10.00' INV= 5.99' (W-OUT)
DI-5	RIM= 10.00' INV= 6.37' (NE) INV= 6.37' (SE-OUT)
DI-6	RIM= 10.25' INV= 6.65' (NE) INV= 6.65' (SW-OUT)
DI-7	RIM= 10.62' INV= 7.44' (N) INV= 6.85' (NW) INV= 6.85' (SW-OUT)
DI-8	RIM= 11.06' INV= 7.74' (N) INV= 7.74' (S-OUT)
DI-10	RIM= 10.47' INV= 7.07' (N) INV= 7.07' (NW) INV= 7.07' (SE-OUT)
DI-11	RIM= 12.25' INV= 7.31' (N) INV= 7.31' (S-OUT)
DI-12	RIM= 12.25' INV= 7.45' (S-OUT)
DI-13	RIM= 11.78' INV= 7.38' (N) INV= 7.38' (SE-OUT)
DI-14	RIM= 12.05' INV= 7.57' (S-OUT)
DI-16	RIM= 11.10' INV= 9.63' (N-OUT)
DI-17	RIM= 10.78' INV= 9.51' (S) INV= 9.51' (NE-OUT)

STRUCTURE TABLE	
NAME	DETAILS
DI-18	RIM= 10.63' INV= 9.21' (SW) INV= 9.21' (E-OUT)
DI-19	RIM= 10.50' INV= 8.91' (W) INV= 8.91' (E-OUT)
DI-20	RIM= 12.30' INV= 7.60' (N) INV= 7.60' (SE-OUT)
DI-21	RIM= 12.20' INV= 7.76' (NE) INV= 7.72' (S-OUT)
DI-22	RIM= 11.85' INV= 8.07' (N) INV= 8.07' (SW-OUT)
DI-23	RIM= 10.50' INV= 8.31' (NW) INV= 8.31' (S-OUT)
DI-24	RIM= 10.70' INV= 8.63' (W) INV= 8.62' (SE-OUT)
FES-1	RIM= 7.79' INV= 6.00' (S-OUT)
FES-2	RIM= 7.77' INV= 5.98' (N)
FES-100	RIM= 7.24' INV= 5.10' (E)
FES-200	RIM= 6.62' INV= 5.00' (NE)
JB-9	RIM= 9.43' INV= 7.90' (S-OUT)
OCS	RIM= 7.76' INV= 5.20' (W-OUT)

PIPE TABLE				
PIPE NAME	SIZE	MATERIAL	LENGTH	SLOPE
P-01-200	18"	RCP	42.41'	0.30%
P-2-01	12"	RCP	86.55'	0.32%
P-3-2	12"	RCP	86.37'	0.35%
P-4-3	12"	RCP	90.25'	0.30%
P-5-03	15"	RCP	78.90'	0.30%
P-6-5	15"	RCP	94.31'	0.30%
P-7-6	15"	RCP	67.97'	0.30%
P-8-7	12"	RCP	98.91'	0.30%
P-9-8	12"	RCP	23.30'	0.70%
P-10-7	15"	RCP	72.34'	0.30%
P-11-10	12"	RCP	80.22'	0.30%
P-12-11	12"	RCP	47.53'	0.30%
P-13-10	15"	RCP	104.59'	0.30%
P-14-13	12"	RCP	62.91'	0.30%
P-17-16	12"	RCP	38.80'	0.30%
P-18-17	12"	RCP	98.49'	0.30%
P-19-18	12"	RCP	100.86'	0.30%
P-20-06	12"	RCP	116.88'	0.30%
P-21-20	12"	RCP	40.37'	0.30%
P-22-21	12"	RCP	102.36'	0.30%

PIPE TABLE				
PIPE NAME	SIZE	MATERIAL	LENGTH	SLOPE
P-23-22	12"	RCP	82.46'	0.30%
P-24-23	12"	RCP	103.68'	0.30%
P-57	18"	RCP	90.00'	0.02%
P-58	12"	RCP	95.32'	0.30%
P-302-301	18"	RCP	204.25'	0.30%
P-303-302	18"	RCP	129.54'	0.30%
P-304-303	15"	RCP	137.58'	0.30%
P-305-304	15"	RCP	106.06'	0.30%
P-306-305	15"	RCP	125.64'	0.30%
P-OCS-100	15"	RCP	42.11'	0.24%

SPOT ELEVATION KEY

BACK OF CURB SPOT ELEVATION	13.55 BC
TOP OF CONCRETE SPOT ELEVATION	12.45 TC
TOP OF ASPHALT SPOT ELEVATION	11.30 TA
BOTTOM OF RAMP SPOT ELEVATION	11.56 BR
TOP OF RAMP SPOT ELEVATION	13.50 TR
FINISH GRADE SPOT ELEVATION	12.24 FG
TOP OF BOARDWALK SPOT ELEVATION	14.00 TBW
TOP OF BANK SPOT ELEVATION	11.09 TB
HIGH POINT SPOT ELEVATION	10.50 HP

MATCHLINE
SEE SHEET C4.12

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Preliminary
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NORTH CAROLINA PROFESSIONAL SEAL 032109 ENGINEER JOSEPH B. RIVERS

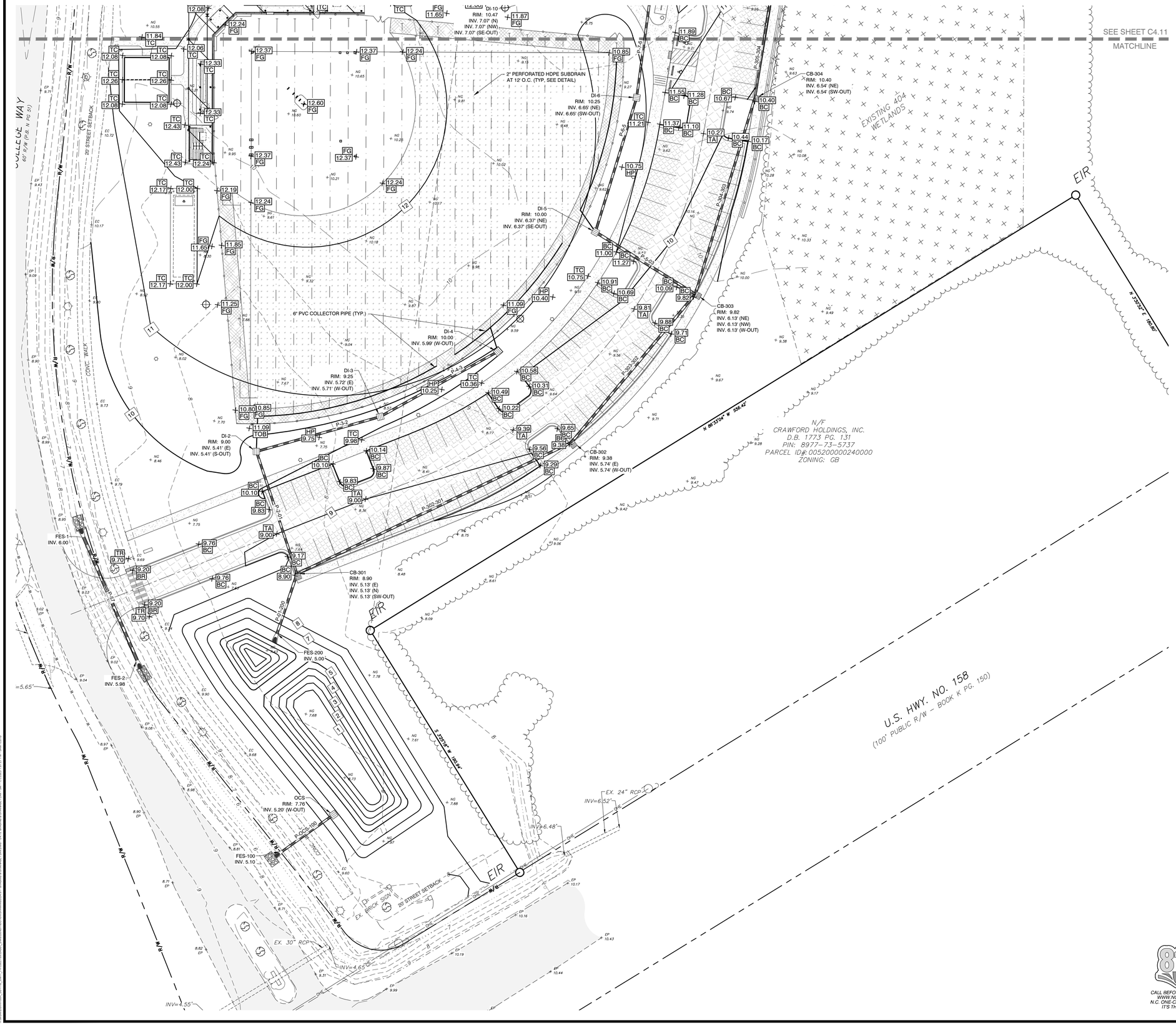
ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA
GRADING & DRAINAGE PLAN - NE

DESIGNED BY:	BR, SBF
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.11

Do Not Use for Construction - PRELIMINARY



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NORTH CAROLINA PROFESSIONAL SEAL 032161 ENGINEER BRIAN RIVERS

Preliminary
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ISSUE/REVISIONS:

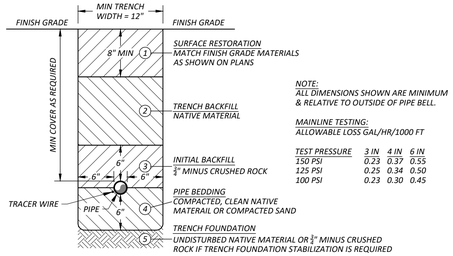
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

GRADING & DRAINAGE PLAN - SW

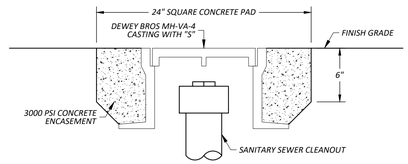
DESIGNED BY:	BR, SBF
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.12

Do Not Use for Construction - PRELIMINARY



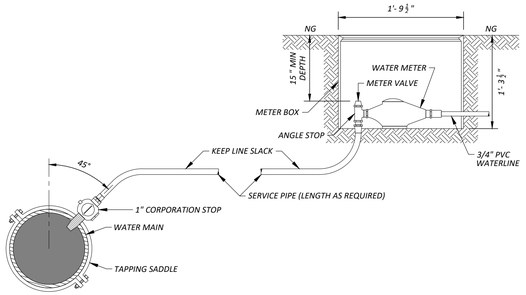
1 TYPICAL SEWER TRENCH

N.T.S.
SSWR-24



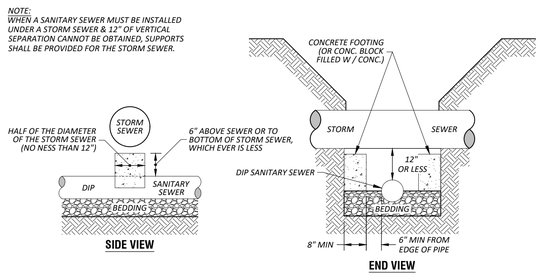
2 SANITARY SEWER CLEANOUT

N.T.S.
SSWR-18



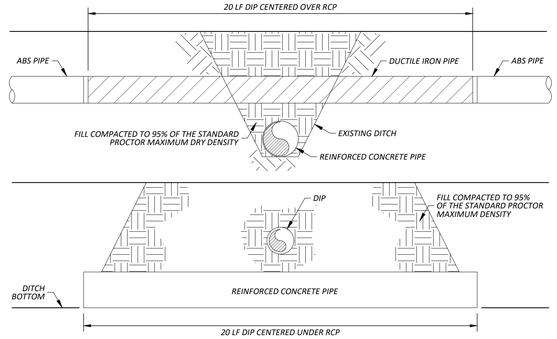
3 TYPICAL 3/4 " WATER SERVICE CONNECTION

N.T.S.
WATR-12



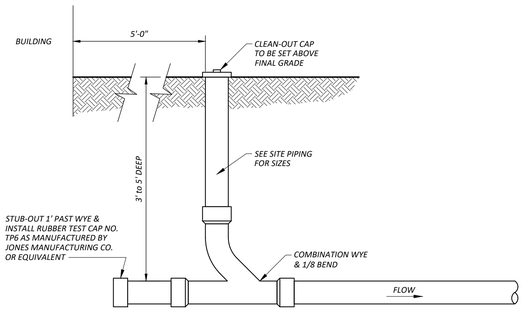
4 SEWER CROSSING UNDER STORM SEWER

N.T.S.
MISC-26



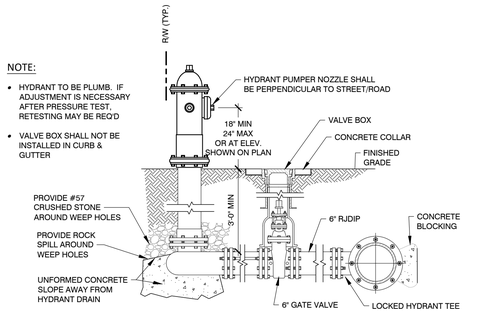
5 SANITARY SEWER STORM SEWER PIPE CROSSING

N.T.S.
SSWR-16



6 SEWER SERVICE CLEAN-OUT

N.T.S.
SSWR-07C

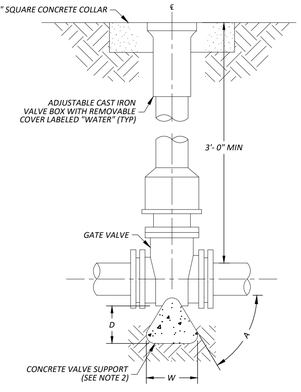


7 FIRE HYDRANT INSTALLATION

N.T.S.
WATR-03C

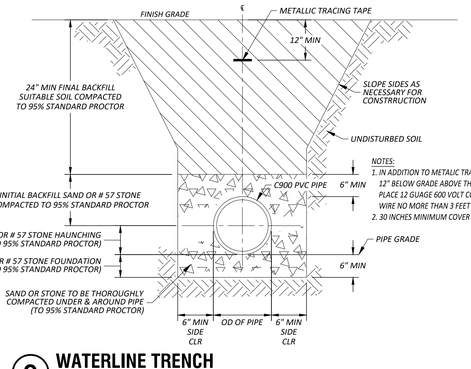
NOTES:
1. DIMENSION "D" SHALL BE LARGE ENOUGH TO MAKE ANGLE "A" EQUAL TO OR GREATER THAN 45°.
2. CONCRETE SHALL NOT INTERFERE WITH MECH. JOINT FITTINGS.

CONC BLOCKING SIZE		
PIPE SIZE	W	D
3"	1'-0"	SEE NOTE 1
4"	1'-0"	
6"	1'-3"	
8"	1'-6"	
12"	2'-3"	
16"	3'-0"	



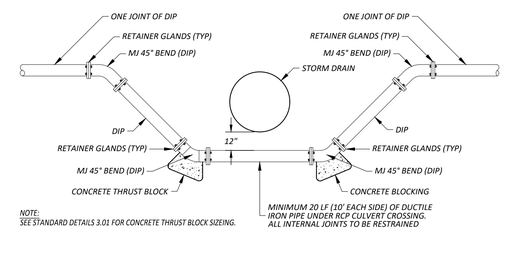
8 VALVE BOX

N.T.S.
WATR-31



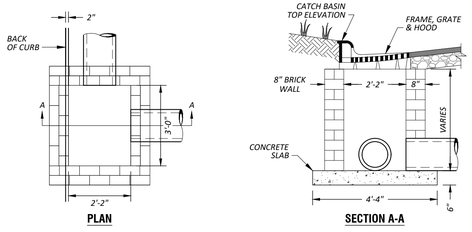
9 WATERLINE TRENCH

N.T.S.
WATR-37



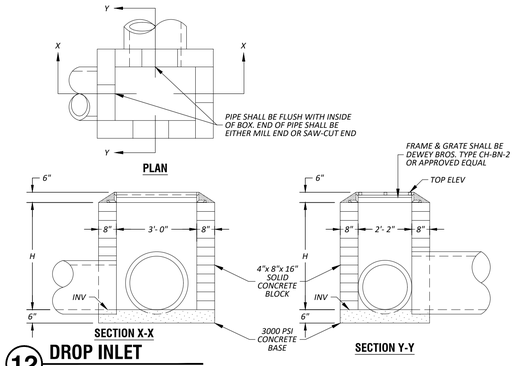
10 PIPE CROSSING STORM DRAIN

N.T.S.
SRRM-16



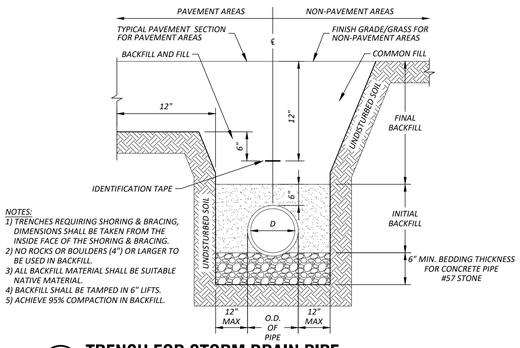
11 STANDARD CATCH BASIN

N.T.S.
STRM-17



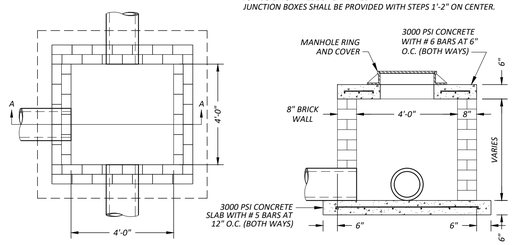
12 DROP INLET

N.T.S.
STRM-09



13 TRENCH FOR STORM DRAIN PIPE

N.T.S.
STRM-34



14 JUNCTION BOX

N.T.S.
STRM-09B

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NORTH CAROLINA PROFESSIONAL SEAL 043241 ENGINEER SCOTT B. RIVERS

Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

GRADING, DRAINAGE, & UTILITIES DETAILS

DESIGNED BY:	BR
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.21

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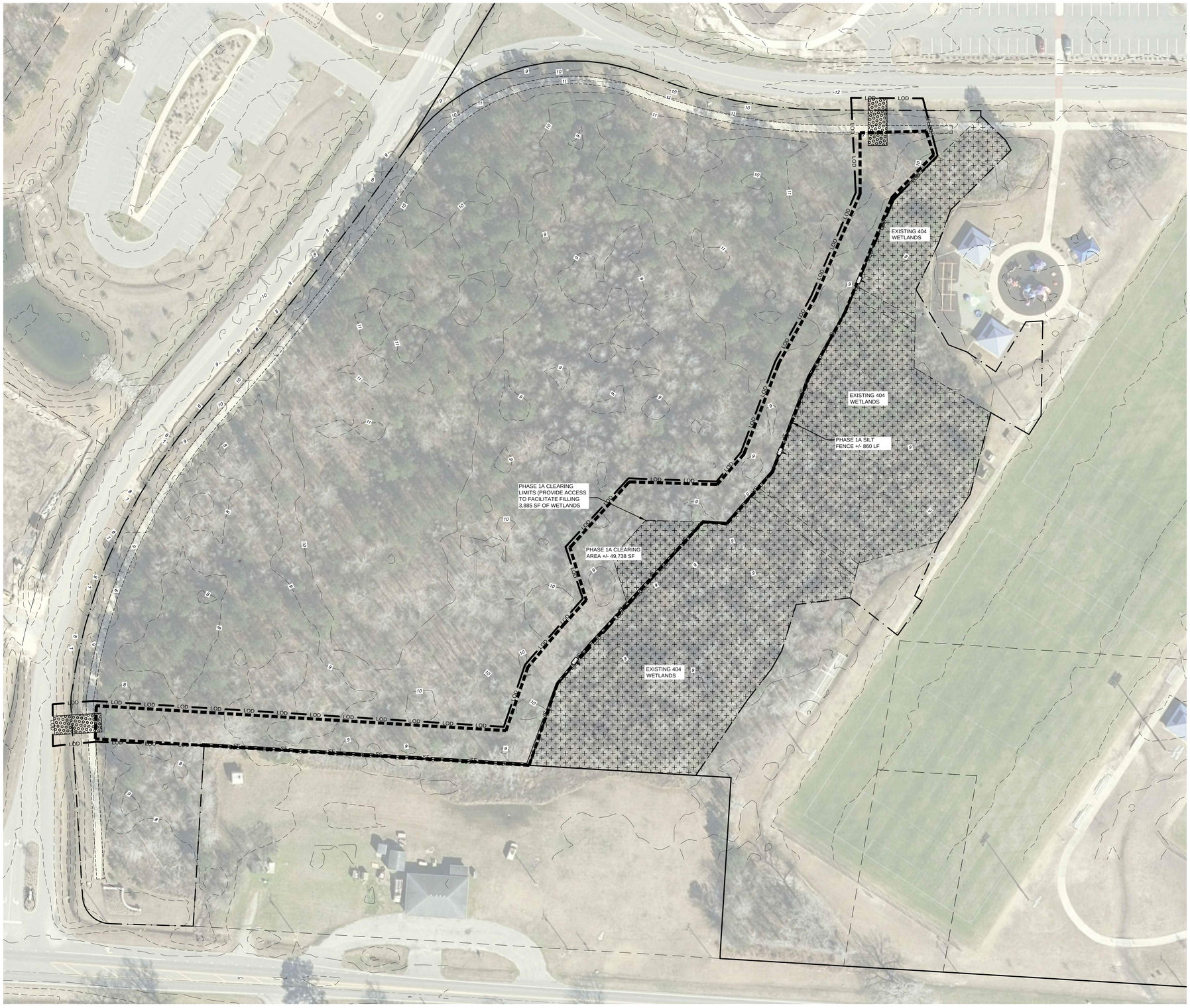
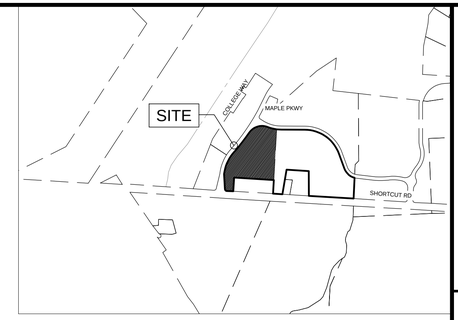


PHASE 1A DISTURBED AREA = 1.43 ACRES
TOTAL DISTURBED AREA = 10.00 ACRES



VICINITY MAP

1" = 1000' - 0"

NOTE:

CONTRACTORS SHALL NOT CUT ANY TREES ON ON SITE DURING THE FOLLOWING TIME PERIODS: DECEMBER 15 THROUGH FEBRUARY 14 AND / OR APRIL 15 THROUGH JULY 31.

EROSION CONTROL LEGEND		
DESCRIPTION	SYMBOL	DETAIL
SILT FENCE	SF	
SILT FENCE OUTLET		
INLET PROTECTION		
PIPE INLET PROTECTION		
GRAVEL CONSTRUCTION ENTRANCE/EXIT		
TREE PROTECTION FENCE	TPF	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF	
TEMPORARY CHECK DAM		
LIMITS OF DISTURBANCE	LOD	
CONSTRUCTION FENCE	C	
CLEARING LIMITS		

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50' 0 25' 50'

SCALE 1 inch = 50 ft

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353 E. Six Forks Road
Raleigh, NC 27609
919.594.1626

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17230 JOSEPH STEPHEN JANKE

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

CLEARING, GRUBBING & EROSION CONTROL PLAN, PHASE 1A

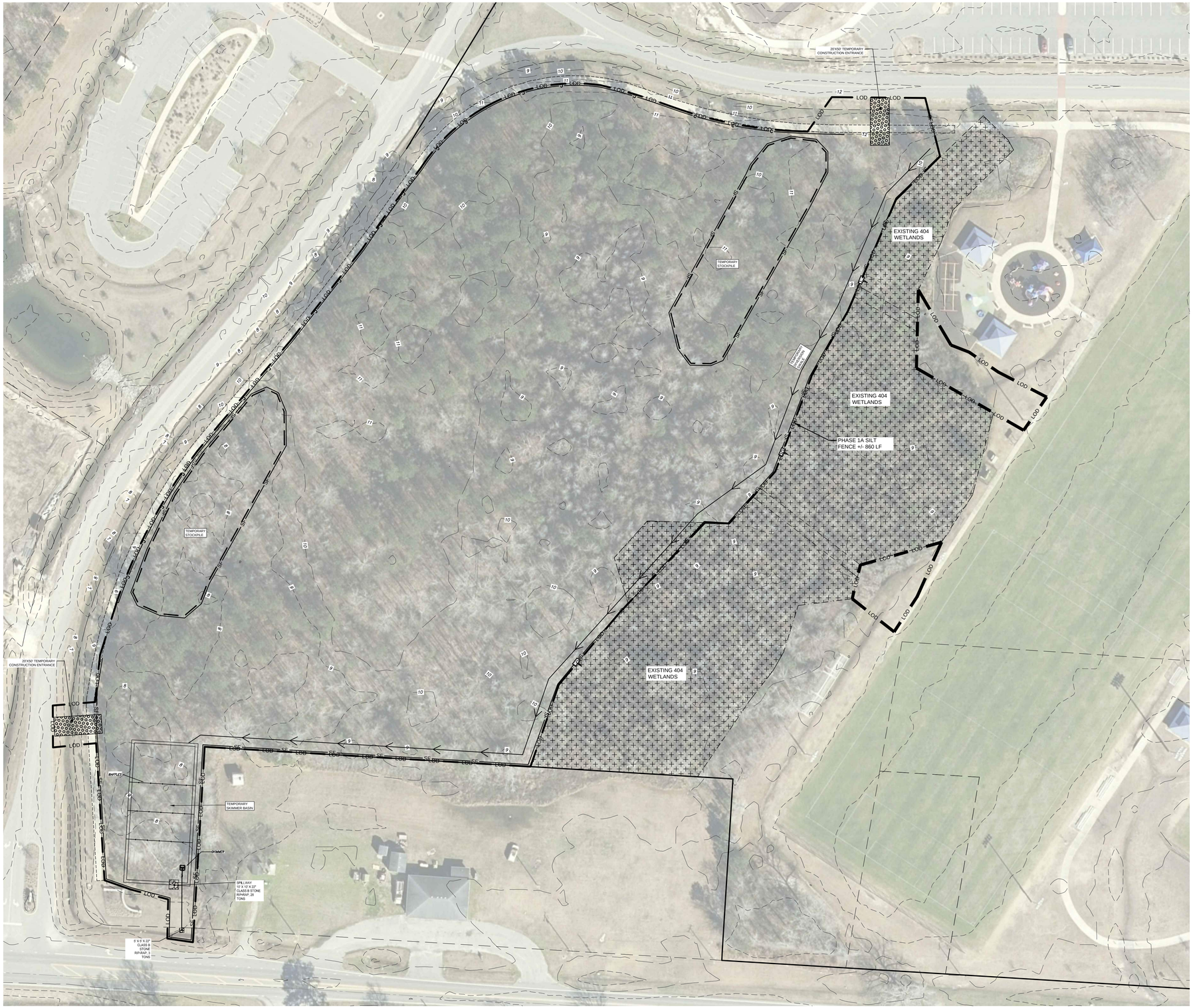
DATE: JUNE 20, 2023

DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	1:50

SHEET No.

C5.01

I:\RIVERS\2022\2022109\CAD\PLOT\PLT-2022109-EROSION CONTROL SHEETS.DWG - C5.01 - PHASE 1A EROSION CONTROL - 6/20/2023 3:43:57 PM - STAFF JANKE



EROSION CONTROL LEGEND		
DESCRIPTION	SYMBOL	DETAIL
SILT FENCE	SF	
SILT FENCE OUTLET		
INLET PROTECTION		
PIPE INLET PROTECTION		
GRAVEL CONSTRUCTION		
TREE PROTECTION FENCE	TPF	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF	
TEMPORARY CHECK DAM		
LIMITS OF DISTURBANCE	LOD	
CONSTRUCTION FENCE	C	

NOTE:

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TOTAL DISTURBED AREA = 10.00 ACRES

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 23241 JOSEPH STEPHEN JANNEY

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

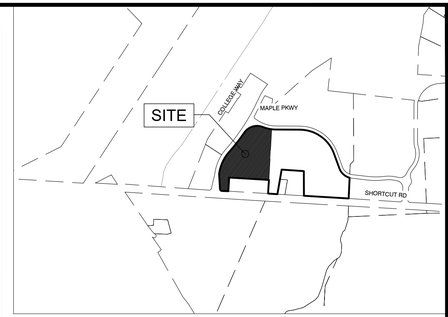
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

CLEARING, GRUBBING & EROSION CONTROL PLAN, PHASE 1B

DATE:	JUNE 20, 2023
DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	1:50
SHEET No.	C5.02

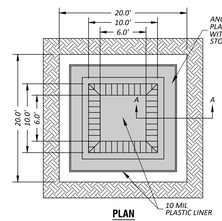
J:\WORKSHARE\CA\2022109\CAD\C_PLOT\2022109SCD01_SHEETC5.02.DWG, EROSION CONTROL PLAN - PHASE 1B, 6/20/2023 3:43:53 PM, STUART BARNES

EROSION CONTROL LEGEND	
DESCRIPTION	SYMBOL
SILT FENCE	SF
SILT FENCE OUTLET	
INLET PROTECTION	
GRAVEL CONSTRUCTION ENTRANCE/EXIT	
CONCRETE WASHOUT	
CURB INLET PROTECTION	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF
TEMPORARY CHECK DAM	
LIMITS OF DISTURBANCE	LOD
CONSTRUCTION FENCE	C

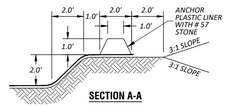


VICINITY MAP

1" = 1000' - 0"

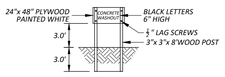


PLAN
BELOW GRADE



SECTION A-A

NOTES:
1) ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2) THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3) PIT CAPACITY IS A MIN. OF 6 CFT. PER 10 CYD. OF CONCRETE.
4) CONTRACTOR TO COORDINATE PROPER DISPOSAL OF CONCRETE.



CONCRETE WASHOUT SIGN OR EQUIVALENT

1 CONCRETE WASHOUT PIT

N.T.S.
EC-36

STAGE 1C CONSTRUCTION SEQUENCE

17. OBTAIN PLAN APPROVALS AND ALL APPROVALS AND ALL APPLICABLE PERMITS.
18. FLAG LIMITS OF CLEARING AND GRUBBING AND GRADING.
19. HOLD PRE-CONSTRUCTION MEETING WITH CONTRACTOR, EROSION CONTROL ADMINISTRATOR (252-946-6481), PROJECT ENGINEER, AND OWNER BEFORE WORK BEGINS.
20. INSTALL SILT FENCE FENCES AND SILT FENCE OUTLETS AS THE FIRST CONSTRUCTION ACTIVITY, CLEARING ONLY AS NECESSARY.
21. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE AND TEMPORARY DRIVEWAY PIPE.
22. PRIOR TO BEGINNING ANY SITE WORK OR GRADING, THE CONTRACTOR SHALL COMPLETE ALL SITE DEMOLITION AND/OR RELOCATION OF EXISTING UTILITIES. REFER TO THE DEMOLITION PLAN AND UTILITY PLAN.
23. BEGIN BRINGING SITE UP TO GRADE. THE CONTRACTOR SHALL CONSTRUCT THE RETAINING WALL AROUND THE PERIMETER OF THE PARKING LOT AREA.
24. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES

NOTE:
REFER TO PERMIT PLAN SHEETS C5.01, C5.02, C5.11, AND C5.21 FOR INITIAL SEDIMENTATION & EROSION CONTROL MEASURES.

CONTRACTORS SHALL NOT CUT ANY TREES ON ON SITE DURING THE FOLLOWING TIME PERIODS: DECEMBER 15 THROUGH FEBRUARY 14 AND / OR APRIL 15 THROUGH JULY 31.

NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

TOTAL DISTURBED AREA = 10.00 ACRES

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50' 0 25' 50'
SCALE 1 inch = **50** ft

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NORTH CAROLINA PROFESSIONAL SEAL 032411 ENGINEER JOSEPH S. JAMES

Preliminary
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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

SEDIMENTATION & EROSION CONTROL PLAN - STAGE 1C

DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	**C5.03**

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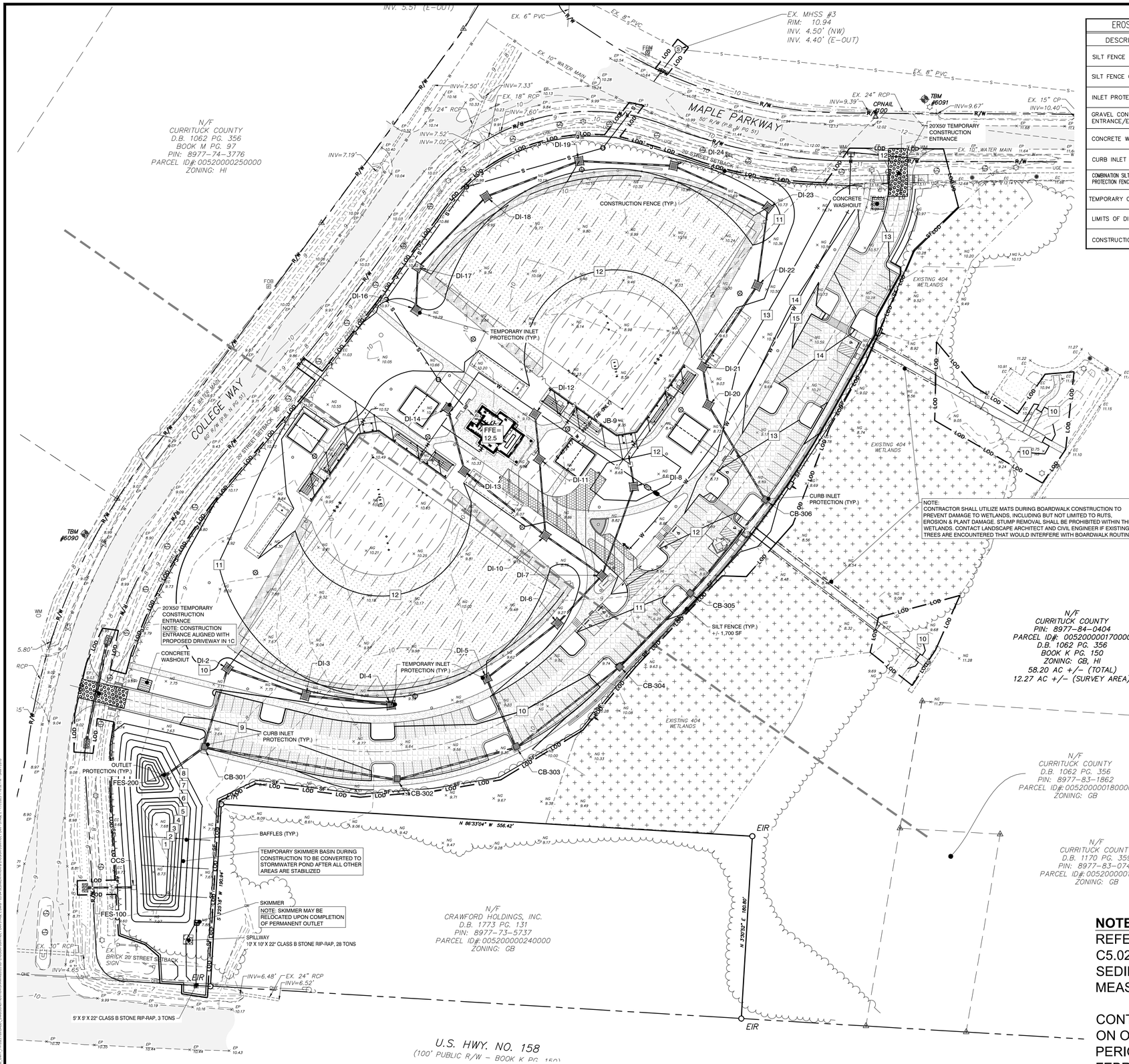
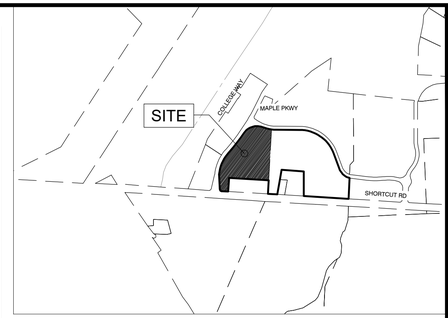


TOTAL DISTURBED AREA = 10.00 ACRES

EROSION CONTROL LEGEND	
DESCRIPTION	SYMBOL
SILT FENCE	SF
SILT FENCE OUTLET	
INLET PROTECTION	
GRAVEL CONSTRUCTION ENTRANCE/EXIT	
CONCRETE WASHOUT	
CURB INLET PROTECTION	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF
TEMPORARY CHECK DAM	
LIMITS OF DISTURBANCE	LOD
CONSTRUCTION FENCE	C

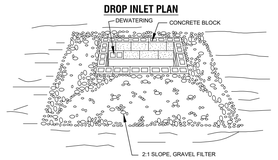
NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.



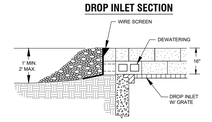
VICINITY MAP

1" = 1000' - 0"

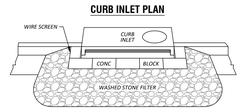
DROP INLET PLAN



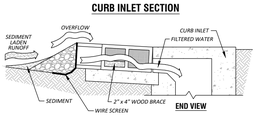
DROP INLET SECTION



CURB INLET PLAN



CURB INLET SECTION



NOTES:
1) SEDIMENT BARRIERS SHALL BE PROVIDED FOR ALL CURB INLETS IN THE IMMEDIATE AREA OF CONSTRUCTION.
2) TWO CONCRETE BLOCKS SHALL BE PLACED ON THEIR SIDES ABUTTING THE CURB AT EITHER SIDE OF THE INLET OPENING. A 2" x 4" STUD SHALL BE CUT AND PLACED THROUGH THE OUTER HOLES OF THE SPACER BLOCKS TO BRACE THE FRONT BLOCKS. FRONT BLOCKS ARE PLACED ON THEIR SIDES ACROSS THE INLET AND ABUTTING THE SPACER BLOCKS.
3) NCDOT # 57 STONE SHALL BE PLACED AGAINST THE WIRE TO THE TOP OF THE BLOCK.

NOTE THAT THIS MEASURE IS NOT TO BE USED ON CITY STREETS OPEN TO TRAFFIC AND/OR WHERE THE FINISHED COURSE OF ASPHALT HAS BEEN PLACED.

CONSTRUCTION SPECIFICATIONS:
1. *LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2 X 4 WOOD STUDS THROUGH BLOCK OPENINGS.*
2. *CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH ½-INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.*
3. *USE CLEAN GRAVEL, ¾- TO ½-INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.*
4. *IF ONLY STONE AND GRAVEL ARE USED, KEEP THE SLOPE TOWARD THE INLET NO STEEPER THAN 3:1. LEAVE A MINIMUM 1-FOOT WIDE LEVEL STONE AREA BETWEEN THE STRUCTURE AND AROUND THE INLET TO PREVENT GRAVEL FROM ENTERING INLET. ON THE SLOPE TOWARD THE INLET, USE STONE 3 INCHES IN DIAMETER OR LARGER. ON THE SLOPE AWAY FROM THE INLET USE ½ - ¾-INCH GRAVEL (NCDOT #57 WASHED STONE) AT A MINIMUM THICKNESS OF 1-FOOT.*

MAINTENANCE:
1. *INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½ INCH OR GREATER) RAINFALL AND MAKE REPAIRS AS NEEDED.*
2. *REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.*
3. *WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.*

1 TEMPORARY BLOCK & GRAVEL INLET PROTECTION

N.T.S.

STAGE 2 CONSTRUCTION SEQUENCE

25. INSTALL STORM PIPE SYSTEM AND TEMPORARY INLET PROTECTION. GRADE ALL PERMANENT SWALES/DITCHES, AND INSTALL DITCH LINERS. INSTALL PROPOSED UTILITIES.
26. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE OWNER OR COUNTY ENGINEER IF DEEMED NECESSARY.
27. INSTALL IRRIGATION SYSTEM MAINLINES AND OUTLETS.
28. EXCAVATE AND POUR CONCRETE FOOTINGS: LIGHT TOWERS, DUGOUTS, BLEACHERS, ETC.
29. AFTER GRADING IS COMPLETE, THEN ESTABLISH PERMANENT GROUND COVER ON ALL DISTURBED AREAS, INCLUDING PAVING, LANDSCAPING, MULCH, AND ESTABLISH A DENSE STAND OF GRASS. ANY BARE SPOTS, EROSIVE RILLS OR EROSIVE SLOPES SHALL BE PERMANENTLY STABILIZED WITH AN EROSION CONTOL BLANKET AND GRASS (SEED, HYDROSEED OR SOD AS NEEDED). THE CONTRACTOR SHALL WATER ALL VEGETATION AS NEEDED FOR HEALTHY PLANTS AND GRASS UNTIL CONSTRUCTION IS COMPLETE AND APPROVED BY MUNICIPALITIES.
30. INSTALL BALL FIELD DRAIN TILE SYSTEMS AND DRAIN OUTLETS.
31. INSTALL ELECTRIC LINES, CABLES, OUTLETS TO LIGHT TOWERS, DUGOUTS, STANDS.
32. LAY OUT STABILIZED AREAS: HAUL IN AGGREGATE FOR WARNING TRACKS, PATHS TO HOME PLATE IN FRONT OF DUGOUTS.
33. PREPARE NATIVE TOPSOIL PER PROJECT SPECS. REMOVE ALL SOIL FROM THE EXISTING FIELD AREA AND REPLACE WITH DRAINAGE SYSTEM AND SAND-BASED ROOT ZONE FOR THE GROWING MEDIUM.
34. STERILIZE NATIVE SOILS MATERIAL IF POSSIBLE.
35. ROTO-TILL THE SOIL FOR UNIFORM AND THOROUGH MIXING. REWORK THE AREA TO GRADE ELEVATIONS WITH LASER GRADER.
36. VERIFY ELEVATIONS WITH SURVEYS REPORT.
37. ROLL THE AREA TO A FIRM SOIL.
38. INSTALL BACK STOPS, FENCES, SCOREBOARD, FLAG POLE, FOUL LINE MARKER.
39. BUILD PITCHER'S MOUND.
40. SPREAD STARTING FERTILIZER AT BALL FIELDS.
41. FINISH GRADING WITH LASER DEVISE: REMEASURE DIAMOND AND CAREFULLY RECHECK ELEVATIONS.
42. SET THE HOME PLATE, PITCHER'S PLATE ANCHORS, AND BASE ANCHORS.
43. MARK ALL GRASS LINES, CIRCLES, ARCS, AND BOXES WITH CHALK OR LIME.
44. PLANT THE AREA WITH SOD PER PROJECT SPECS.
45. INSTALL WARNING TRACKS.
46. FINISH CONSTRUCTION AND INSTALLATION OF DUGOUTS, LIGHT TOWERS, BLEACHERS, BUILDING, SHELTERS, AND PARKING LOT.
47. ONCE 80% STABILIZATION HAS BEEN ACHIEVED AND A DENSE STAND OF GRASS ESTABLISHED, REMOVE ALL TEMPORARY MEASURES, FINE GRADE DISTURBED AREAS, AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS. CONTACT EROSION CONTROL INSPECTOR FOR ONSITE INSPECTION.
48. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL COMPLETION OF THE PROJECT.
49. WITHIN 6' OF FINAL GRADE, RE-DISTRIBUTE 6" OF TOP SOIL.
50. FINE GRADE, PERMANENTLY SEED AND MULCH ALL-LANDSCAPED AREAS. HOLD FINAL ONSITE INSPECTION WITH EROSION CONTROL INSPECTOR AND OBTAIN FINAL APPROVAL.

NOTE:
REFER TO PERMIT PLAN SHEETS C5.01, C5.02, C5.11, AND C5.21 FOR INITIAL SEDIMENTATION & EROSION CONTROL MEASURES.

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NORTH CAROLINA PROFESSIONAL SEAL 032401 ENGINEER JOSEPH S. JOHNSON
Preliminary DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA
SEDIMENTATION & EROSION CONTROL PLAN - STAGE 2

DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C5.04

Do Not Use for Construction - PRELIMINARY

DATE:

PAGE:

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

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

SECTION E: GROUND STABILIZATION

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

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

GROUND STABILIZATION SPECIFICATION

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

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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

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

PORTABLE TOILETS

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

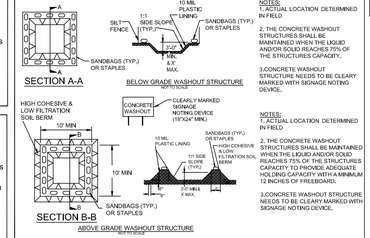
EARTHEN STOCKPILE MANAGEMENT

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

HAZARDOUS AND TOXIC WASTE

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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

NORTH CAROLINA *Environmental Quality*

EFFECTIVE DATE: 11/12/2020

NCG-01 GROUND COVER & MATERIALS HANDLING

DATE:

PAGE:

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

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

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

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

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

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

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed If shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all Inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.
(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
(d) Anticipated bypasses and unanticipated bypasses.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframe (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related caused, the permittee may be required to perform additional monitoring, Inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• Within 24 Hours, an oral or electronic notification, The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• *A report at least ten days before the date of the bypass, if possible.* The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41((k)(7)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

NORTH CAROLINA *Environmental Quality*

EFFECTIVE DATE: 11/12/2020

NCG01- SELF INSPECTION

TEMPORARY SEEDING SCHEDULE

(TO TEMPORARILY STABILIZE DENUDED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF 15 WORKING DAYS)

SEEDING DATES: DECEMBER 1 THRU APRIL 15

SEEDING MIXTURE: SPECIES
RATE (LBS/AC)

RYE (GRAIN)
120
ANNUAL LESPEDEZA (KOBE)
50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
750 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING DATES: APRIL 15 – AUGUST 15

SEEDING MIXTURE: SPECIES
RATE (LBS/AC)

GERMAN MILLET
40

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
750 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING DATES: AUGUST 15 THRU DECEMBER 15

SEEDING MIXTURE: SPECIES RATE
(LBS/AC)

RYE (GRAIN) 120

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
1000 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OF A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LBS/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LBS/AC KOBE IN LATE FEBRUARY OR EARLY MARCH

CONSTRUCTION SCHEDULE

PHASE 1A
1. OBTAIN PLAN APPROVALS AND ALL APPROVALS AND ALL APPLICABLE PERMITS.
2. FLAG LIMITS OF CLEARING AND GRUBBING AND GRADING.
3. HOLD PRE–CONSTRUCTION MEETING WITH CONTRACTOR, EROSION CONTROL ADMINISTRATOR (252–946–6481), PROJECT ENGINEER, AND OWNER BEFORE WORK BEGINS.
4. INSTALL SILT FENCE FENCES AND SILT FENCE OUTLETS AS THE FIRST CONSTRUCTION ACTIVITY.
5. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
6. INSTALL SILT FENCE PER PLAN.
7. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR STEEPER.

PHASE 1B
8. INSTALL TEMPORARY SEDIMENT BASIN AND DIVERSION SWALE PER PLAN.
9. BEGIN CLEARING AND GRUBBING SITE IN DESIGNATED AREAS AND STOCKPILE IN DESIGNATED AREA..
10. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR STEEPER.
11. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE OWNER OR CITY ENGINEER IF DEEMED NECESSARY.
12. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES, FINE GRADE DISTURBED AREAS, AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
13. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL COMPLETION OF THE PROJECT.
14. WITHIN 6" OF FINAL GRADE, RE–DISTRIBUTE 6" OF TOP SOIL.
15. FINE GRADE, PERMANENTLY SEED AND MULCH ALL–LANDSCAPED AREAS.
16. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES UPON COMPLETION AND STABILIZATION OF PROJECT(±80%).

PERMANENT SEEDING SCHEDULE

IN ROADWAY AREAS:

MARCH 1 – AUGUST 31:
SEED MIX: RATE:
TALL FESCUE 50 LB/AC
CENTIPEDE 10 LB/AC
BERMUDAGRASS (HULLED) 25 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

SEPTEMBER 1 – FEBRUARY 28:
SEED MIX: RATE:
TALL FESCUE 50 LB/AC
CENTIPEDE 10 LB/AC
BERMUDAGRASS (UNHULLED) 35 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

IN WASTE/BORROW AREAS:

MARCH 1 – AUGUST 31:
SEED MIX: RATE:
TALL FESCUE 75 LB/AC
BERMUDAGRASS (HULLED) 25 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

SEPTEMBER 1 – FEBRUARY 28:
SEED MIX: RATE:
TALL FESCUE 75 LB/AC
BERMUDAGRASS (UNHULLED) 35 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

MULCH:
APPLY 4,000 LB/ACRE GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR BY TACKING WITH ASPHALT, ROVING, NETTING, OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REFERTILIZE THE FOLLOWING APRIL WITH 50 LB/ACRE NITROGEN.
REPEAT AS GROWTH REQUIRES. MAY BE MOWED AS OFTEN AS NEEDED.

NOTE: SEE NCDOT'S LATEST STANDARDS FOR STABILIZATION FOR MORE INFORMATION.

TEMPORARY SEEDBED PREPARATION

1. A GOOD SEEDBED IS WELL PULVERIZED, LOOSE, AND UNIFORM.
2. LIMING – APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS. IF THE pH (ACIDITY) OF THE SOIL IS NOT KNOWN, AN APPLICATION OF GROUND AGRICULTURAL LIMESTONE AT THE RATE OF 1 – 1.5 TONS/ACRE ON FINE TEXTURED SOILS AND 2–3 TONS/ACRE ON COARSE TEXTURED SOILS IS USUALLY SUFFICIENT. APPLY LIMESTONE UNIFORMLY AND INCORPORATE INTO THE TOP 4–6 INCHES OF THE SOIL. SOILS WITH A pH OF 6 OR HIGHER NEED NOT BE LIMED.
3. FERTILIZER – BASE APPLICATION RATES ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE APPLY A 10–10–10 GRADE FERTILIZER AT 700 – 1000 LB/ACRE. BOTH FERTILIZER AND LIME SHOULD BE INCORPORATED INTO THE TOP 4–6 INCHES OF SOIL. IF A HYDRAULIC SEEDER IS USED, DO NOT MIX SEED AND FERTILIZER MORE THAN 30 MINUTES BEFORE APPLICATION.
4. SURFACE ROUGHENING – IF RECENT TILLAGE OPERATIONS HAVE RESULTED IN A LOOSE SURFACE, ADDITIONAL ROUGHENING MAY NOT BE REQUIRED, EXCEPT TO BREAK UP LARGE CLODS. IF RAINFALL CAUSES THE SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING BY DISKING, RAKING, HARROWING, OR OTHER SUITABLE METHODS. GROOVE OR FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR BEFORE SEEDING. SEE OTHER REQUIREMENTS FOR SURFACE ROUGHENING ON THIS SHEET.

PERMANENT SEEDBED PREPARATION

1. INSTALL NECESSARY MECHANICAL EROSION AND SEDIMENTATION CONTROL PRACTICES BEFORE SEEDING, AND COMPLETE GRADING ACCORDING TO THE APPROVED PLAN.
2. LIME AND FERTILIZER NEEDS SHOULD BE DETERMINED BY SOIL TESTS. SOIL TESTING IS PERFORMED FREE OF CHARGE BY THE NC DEPT. OF AGRICULTURE. SOIL TESTING LABORATORY DIRECTIONS, SAMPLE CARTONS, AND INFORMATION ARE AVAILABLE THROUGH COUNTY AGRICULTURAL EXTENSION OFFICES OR FROM NCDA. BECAUSE THE NCDA SOIL TESTING LAB REQUIRES 1–6 WEEKS FOR SAMPLE TURN–AROUND, SAMPLING MUST BE PLANNED WELL IN ADVANCE OF FINAL GRADING. TESTING IS ALSO DONE BY COMMERCIAL LABORATORIES.
3. WHEN SOIL TESTS ARE NOT AVAILABLE, FOLLOW RATES SUGGESTED IN THE PERMANENT SEEDING SCHEDULE ON THIS SHEET. APPLICATION RATES USUALLY FALL INTO THE FOLLOWING RANGES:

   GROUND AGRICULTURAL LIMESTONE:
   LIGHT TEXTURED, SANDY SOILS: 1 – 1.5 TONS/ACRE
   HEAVY TEXTURED, CLAYEY SOILS: 2 – 3 TONS/ACRE

   FERTILIZER:
   GRASSES: 800 – 1200 LB/ACRE OF 10–10–10 (OR EQUIVALENT)
   GRASS–LEGUME MIXTURES: 800 – 1200 LB/ACRE OF 5–10–10 (OR EQUIVALENT)

4. APPLY LIME AND FERTILIZER EVENLY AND INCORPORATE INTO THE TOP 4–6 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. OPERATE MACHINERY ON THE CONTOUR.
5. ROUGHEN SURFACES IN ACCORDANCE WITH THE NOTES ON SURFACE ROUGHENING ON THIS SHEET.
6. COMPLETE SEEDBED PREPARATION BY BREAKING UP LARGE CLODS AND RAKING INTO A SMOOTH, UNIFORM SURFACE (SLOPES LESS THAN 3:1.) FILL IN OR LEVEL DEPRESSIONS THAT CAN COLLECT WATER. BROADCAST SEED INTO A FRESHLY LOOSENED SEEDBED THAT HAS NOT BEEN SEALED BY RAINFALL.

NEW STABILIZATION TIMEFRAMES

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
SLOPES STEEPER THAN 3:1	7 DAYS	NONE EXCEPT FOR PERIMETER AND HQW ZONES
SLOPES 3:1 OR FLATTER	14 DAYS	NONE
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE

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(252) 752-4135

NORTH CAROLINA PROFESSIONAL ENGINEER 12924 STEPHEN J. ANNOTTI

REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

EROSION CONTROL NOTES

DATE: JUNE 20, 2023
DESIGNED BY: JSJ
DRAWN BY: SCB
CHECKED BY: JSJ
PROJECT No. 2022109
DRAWING No. W-4080
SCALE: N/A
SHEET No.

C5.11

M:\2022\2022109\CAD\CURRITUCK COUNTY PARK\2022109EROSION CONTROL NOTES.DWG, 6/20/2023 10:50:57 AM, JSJ

NOTES:

1. USE STANDARD STRENGTH FABRIC W/ 8' POST SPACING AND WIRE FENCING WHERE REINFORCED SILT FENCE IS REQUIRED.

2. WITH EXTRA STRENGTH FABRIC USE 6' POST SPACING AND NO WIRE FENCING.

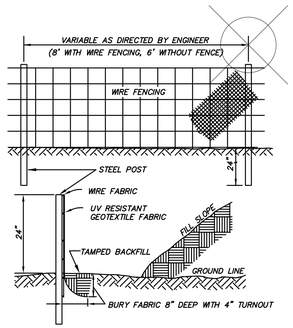
3. WIRE FENCING TO BE 32", WITH 6 LINE WIRES AND STAY WIRES ON 12" CENTERS/ BOTTOM AND TOP WIRES 10 GA., INTERMEDIATE WIRES 12.5 GA.

4. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REPAIRS IMMEDIATELY.

5. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

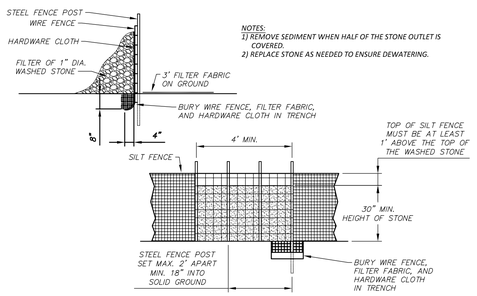
6. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

7. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



1 TEMPORARY SILT FENCE

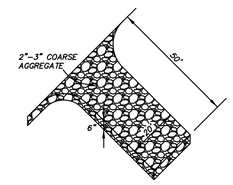
N.T.S.
EC-1(JC)



NOTES:
1) REMOVE SEDIMENT WHEN HALF OF THE STONE OUTLET IS COVERED.
2) REPLACE STONE AS NEEDED TO ENSURE DEWATERING.

2 SILT FENCE OUTLET

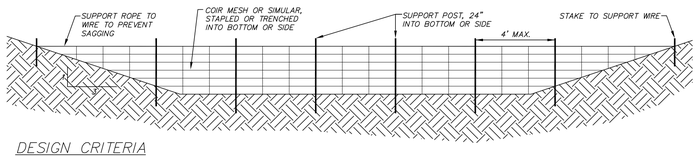
N.T.S.
(JC)



NOTES:
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.

3 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

N.T.S.
STH-26 (JC)



DESIGN CRITERIA

THE PERCENT OF SURFACE AREA FOR EACH SECTION OF THE BAFFLE ARE AS FOLLOWS:

- INLET ZONE 35%
- FIRST CELL 25%
- SECOND CELL 25%
- OUTLET ZONE 15%

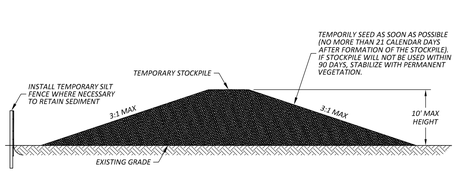
NOTE:
BAFFLES TO BE REMOVED UPON SITE STABILIZATION AND PRIOR TO EXCAVATION FOR FINAL CONTOURS FOR DRY DETENTION CELL.

4 BAFFLE DETAIL

N.T.S.
EC-42

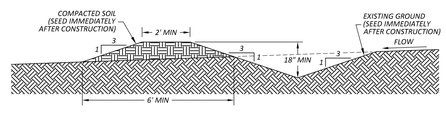
TEMPORARY BAFFLE NOTES:
1) GRADE THE BASIN SO THAT THE BOTTOM IS LEVEL (FRONT TO BACK & SIDE TO SIDE).
2) INSTALL POSTS OR SAWHORSES THE WIDTH OF THE SEDIMENT TRAP.
3) STEEL POSTS SHOULD BE DRIVEN TO A DEPTH OF 24", SPACED A MAXIMUM OF 4' APART & INSTALLED ON THE SIDES OF THE BASIN AS WELL. THE TOP OF THE FABRIC SHOULD BE 6" HIGHER THAN THE INVERT OF THE SPILLWAY. TOPS OF BAFFLES SHOULD BE 2" LOWER THAN THE TOP OF THE BERMS.
4) INSTALL AT LEAST (3) ROWS OF BAFFLES BETWEEN THE INLET & OUTLET DISCHARGE POINT. BASINS 20' IN LENGTH MAY USE (2) BAFFLES.
5) WHEN USING POSTS, ADD SUPPORT WIRE OR ROPE ACROSS THE TOP OF THE MEASURE TO PREVENT SAGGING.
6) WRAP POROUS MATERIAL (JUTE BACKED OR COIR) OVER SAWHORSES OR THE TOP WIRE. HAMMER REBAR INTO THE SAWHORSE LEGS.
FOR ANCHORING. THE FABRIC SHOULD HAVE 5% TO 10% OPENINGS IN THE WEAVE. ATTACH FABRIC TO A ROPE AND A SUPPORT
STRUCTURE WITH ZIP TIES, WIRE OR STAPLES.
7) THE BOTTOM & SIDES OF THE FABRIC SHOULD BE ANCHORED IN A TRENCH OR PINNED WITH 8" EROSION CONTROL MATTING STAPLES.
8) DO NOT SPLICE FABRIC, BUT USE A CONTINUOUS PIECE ACROSS THE BASIN.

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



5 TEMPORARY STOCKPLE

N.T.S.
EC-22



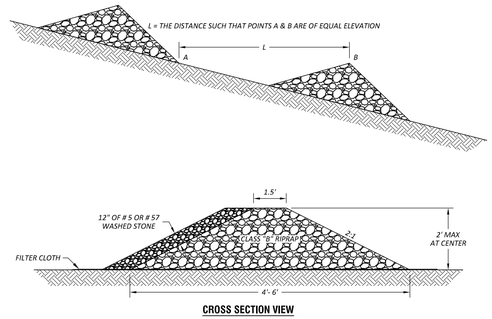
TEMPORARY DIVERSIONS

CONSTRUCTION SPECIFICATIONS:
1) REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.
2) ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS.
3) ENSURE THAT THE TOP OF THE DIKE IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENT.
4) PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REGARDING AND CLEANOUT.
5) VEGETATE THE RIDGE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.

MAINTENANCE:
INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

6 TEMPORARY DIVERSION DITCH

N.T.S.
W-SPEC-1



CROSS SECTION VIEW

ROCK CHECK DAM

CONSTRUCTION SPECIFICATIONS:
1) PLACE STONE TO THE LINES AND DIMENSIONS SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
2) KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS.
3) EXTEND STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM.
4) SET SPACING BETWEEN DAMS TO ASSURE THAT THE ELEVATION AT THE TOP OF THE LOWER DAM IS THE SAME AS THE TOE ELEVATION OF THE UPPER DAM.
5) PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION.
6) MAKE SURE THAT THE CHANNEL REACH ABOVE THE MOST UPSTREAM DAM IS STABLE.
7) ENSURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CULVERT ENTRANCES BELOW THE CHECK DAMS, ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

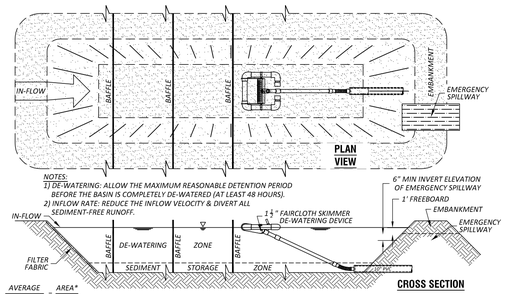
MAINTENANCE:
INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.

ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL

REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

7 TEMPORARY ROCK CHECK DAM

N.T.S.
W-SPEC-8



NOTES:
1) DE-WATERING: ALLOW THE MAXIMUM REASONABLE DETENTION PERIOD BEFORE THE BASIN IS COMPLETELY DE-WATERED (AT LEAST 48 HOURS).
2) INFLOW BATE: REDUCE THE INFLOW VELOCITY & DIVERT ALL SEDIMENT-FREE RUNOFF.

* AREA OF BASIN WATER SURFACE AT TOP OF PRINCIPAL SPILLWAY ELEVATION

SKIMMER TRAP

CONSTRUCTION SPECIFICATIONS:
1) CLEAR, GRUB AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.
2) ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
3) SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OF PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.
4) PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES.

PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.

5) ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED.
6) LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE.
7) EARTHEN SPILLWAYS - INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTION(S) SHOULD OVERLAP THE LOWER SECTION(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS.
8) INLETS - DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY
9) EROSION CONTROL - CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION.
10) INSTALL POROUS BAFFLES.
11) AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY.

MAINTENANCE:
INSPECT SKIMMER SEDIMENT TRAP(S) AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OF THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

8 SEDIMENT TRAP WITH SKIMMER

N.T.S.
EC-42

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Greenville, NC 27858
(252) 752-4135

NORTH CAROLINA PROFESSIONAL SEAL 12224 ENGINEER STEPHEN J. NOWOSIELSKI

REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

EROSION CONTROL DETAILS

DATE:	JUNE 20, 2023
DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	N/A
SHEET No.	C5.21

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FES-100
INV. 5.10' (E)

15" RCP - 42.11 LF @ 0.24%

OCS
RISER ELEV= 6.80
INV. 5.20' (W-OUT)

6.5' WIDE FOREBAY SHELF
AT ELEV. = 5.0'
LINE WITH CLASS 'A' RIPRAP

FOREBAY AREA = 2016 SF
BOTTOM ELEV. = 1.0'

EMERGENCY SPILLWAY AT ELEV.
=7.5
LINE WITH FIBER MAT

6'-8" WIDE VEGETATIVE SHELF AT
ELEV. = 5.0' TO 6.0'
MAIN POND AREA 7051 SF

WET POND SURFACE
ELEV. = 5.0'
PERMANENT POND AREA = 6,244 SF

CB-301
RIM: 8.90
INV. 5.13' (E)
INV. 5.13' (N)
INV. 5.13' (SW-OUT)

FES-200
INV. 5.00' (NE)

18" RCP - 42.41 LF @ 0.30%

S 3°25'18" W 190.94'

INV=4.65'

INV=6.48'

20' STREET SETBACK

SCALE 1 inch = 10 ft

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Raleigh, NC 27609
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NORTH CAROLINA PROFESSIONAL SEAL 032109 ENGINEER BRIAN RIVERS

Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

STORMWATER CONTROL PLAN

DESIGNED BY:	BR
DRAWN BY:	SBF, TAH
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C6.01

Do Not Use for Construction - PRELIMINARY

TEMPORARY RISER WITH SKIMMER BASIN TO PERMANENT WET DETENTION POND CONVERSION SEQUENCE

1. **PRIOR TO BEGINNING THE POND CONVERSION, THE CONTRACTOR SHALL CONTACT THE EROSION CONTROL INSPECTOR, AND THE COUNTY INSPECTOR TO REQUEST PERMISSION TO BEGIN THE POND CONVERSION.**
2. **PRIOR TO BEGINNING THE POND CONVERSION, THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED SURFACES IN THE UPSTREAM DRAINAGE AREA TO THE POND ARE PERMANENTLY STABILIZED WITH PERMANENT GROUND COVER (BUILDINGS, ASPHALT/CONCRETE, PARKING LOTS, SIDEWALKS, MULCH, LANDSCAPING, DITCH LINERS, AND A DENSE STAND OF GRASS.**
3. **THE TEMPORARY SEDIMENT BASIN SHALL BE DEWATERED USING A PUMP AND A SEDIMENT FILTER BAG ACCORDING TO NCDEQ STANDARDS. DISCHARGE THE WATER INTO THE RISER OR DRAINAGE OUTLET.**
4. **THE CONTRACTOR SHALL MEET ONSITE WITH THE PROJECT GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL PROVIDE FIELD GUIDANCE AS NEEDED REGARDING POTENTIAL ADDITIONAL DEWATERING MEASURES AND POND SLOPE STABILIZATION.**
5. **CONTRACTOR TO CONFIRM THAT THE PERMANENT RISER, ORIFICES, OUTLET PIPE, ANTI-SEEP COLLAR, AND CUTOFF TRENCH WERE ACCURATELY INSTALLED PER THE SCM PLAN/DETAILS SHEET, AND INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER AT THE TIME OF INITIAL BASIN CONSTRUCTION. SURVEY VERIFY AND MAKE ANY REPAIRS NEEDED.**
6. **ACCURATELY FINE GRADE THE ENTIRE POND ACCORDING TO THE SCM PLAN/DETAILS SHEET. THIS INCLUDES THE TOP OF BERM, EMBANKMENT, SLOPES, SPILLWAY, VEGETATED SHELF, MAIN POOL, FOREBAY BERM, FOREBAY, TOP OF SLOPES, TOE OF SLOPES. ALL GRADED SURFACES SHALL BE ACCURATELY GRADED TO WITHIN +/- 0.2 FEET OF VERTICAL TOLERANCE. THE CONTRACTOR SHALL RETAIN A SURVEYOR TO PERFORM CONSTRUCTION STAKEOUT AND ASBUILT SURVEY OF THE POND. PAY SPECIAL ATTENTION TO THE ACCURATE GRADING OF THE TOP OF BANK WIDTH/ELEVATION, THE 4 CORNERS OF THE SPILLWAY, SLOPES, AND THE VEGETATED SHELF.**
7. **REMOVE THE TEMPORARY SKIMMER. REMOVE THE TEMPORARY PLUGS IN THE WATER QUALITY DRAWDOWN ORIFICE AND THE DETENTION DRAWDOWN ORIFICE AS SHOWN IN THE OUTLET CONTROL STRUCTURE DETAIL. ENSURE THAT THE SCREW-ON CAP WITH ORIFICE IS PROPERLY INSTALLED ON THE WATER QUALITY DRAWDOWN PER THE OCS DETAIL. ENSURE THAT THE TRASH RACK IS PROPERLY INSTALLED AND OPENS IN THE DIRECTION SHOWN TO ALLOW MAINTENANCE ACCESS FROM THE BERM. ENSURE THAT ALL INVERTED PVC SIPHONS ARE CORRECTLY INSTALLED WITH NO LEAKS, AT THE PROPER ELEVATIONS. ENSURE THAT THE RISER STEPS ARE INSTALLED.**
8. **MUCK OUT THE BASIN. EXCAVATE THE MAIN POOL AND FOREBAY AREAS PER THE CONTOURS SHOWN ON THE SCM PLAN.**
9. **CONFIRM THAT ALL STORM PIPES, FES'S, CONCRETE ENDWALLS, ETC. ARE INSTALLED PER PLANS. INSTALL PERMANENT RIPRAP OVER FILTER FABRIC ON THE FOREBAY BERM, AND AT ALL STORM PIPE OUTLETS PER PLANS. REMOVE THE TEMPORARY IMPERMEABLE MEMBRANE LINER ON THE SPILLWAY.**
10. **AS SOON AS THE POND IS ACCURATELY GRADED, THEN PROMPTLY HAVE AN ASBUILT SURVEY OF THE POND PERFORMED. SURVEY RISER TOP ELEVATION, RISER ORIFICE ELEVATIONS/DIAMETERS, TOP OF BERM WIDTH/ELEVATION, 4 CORNERS OF THE EMERGENCY SPILLWAY ELEVATION, BOTH EDGES OF VEGETATED SHELF ELEVATIONS, ALL SLOPES, PIPE INVERTS, MAIN POOL, FOREBAY BERM AND FOREBAY. SUBMIT ASBUILT CAD FILE WITH SURVEYED AUTOCAD POINTS TO THE CIVIL ENGINEER FOR REVIEW.**
11. **OBTAIN ENGINEER'S COMMENTS. PROMPTLY MAKE ANY ADJUSTMENTS/REPAIRS NEEDED. PERFORM ADDITIONAL ASBUILT SURVEY OF ANY ADJUSTED AREAS AND SUBMIT ASBUILT SURVEY CAD FILE WITH POINTS TO CIVIL ENGINEER.**
12. **AFTER THE ENGINEER HAS ACCEPTED THE POND ASBUILT SURVEY GRADES, THEN PROMPTLY ESTABLISH PERMANENT GROUND COVER IN THE POND. ESTABLISH A DENSE STAND OF GRASS ON THE TOP OF BERM, ALL BASIN SLOPES ABOVE THE PERMANENT POOL, SPILLWAY, AND EMBANKMENT SLOPES. GRASS MAY BE INSTALLED VIA SEEDING, HYDROSEEDING, OR SOD. INSTALL PERMANENT LINER IN SPILLWAY PER THE SCM PLAN. ANY REMAINING DISTURBED OR EROSIVE AREAS SHALL BE PERMANENTLY STABILIZED WITH GRASS, SOD, AND/OR A SLOPE STABILIZATION BLANKET AS NEEDED. WATER GRASS & PLANTS ONLY AS NEEDED FOR PLANT HEALTH.**
13. **PLANTINGS IN THE VEGETATED SHELF SHOULD BE INSTALLED BY A PROFESSIONAL LANDSCAPER, AND THEY MAY TEMPORARILY ADJUST/LOWER THE POND WATER SURFACE ELEVATION AS NEEDED VIA PUMP UNTIL THE PLANTS ARE MATURELY ESTABLISHED.**
14. **SUBMIT GEOTECHNICAL NCPE CERTIFICATION OF POND BERM COMPACTION, OUTLET PIPE INSTALLATION, ANTI-SEEP COLLAR, AND CUTOFF TRENCH TO CIVIL ENGINEER.**
15. **AFTER POND CONSTRUCTION IS COMPLETE AND STABILIZED, THEN CONTACT ENGINEER TO REQUEST ONSITE INSPECTION, PUNCHLIST, AND FINAL APPROVAL. THE CONTRACTOR SHALL NOT BE RELEASED UNTIL AFTER THE POND IS PE CERTIFIED AND ACCEPTED BY THE COUNTY.**

MAINTENANCE

INSPECTION ACTIVITIES - (FREQUENCY)

WHERE MAINTENANCE REQUIRES DEWATERING, DO SO BY MEANS OF DEWATERING PUMP.

AFTER CONSTRUCTION
INSPECT AFTER SEVERAL STORM EVENTS FOR BANK STABILITY, VEGETATION GROWTH, DRAINAGE SYSTEM FUNCTIONING, AND STRUCTURAL DAMAGE.

SEMI-ANNUAL INSPECTION
INSPECT FOR INVASIVE VEGETATION, DIFFERENTIAL SETTLEMENT, CRACKING; EROSION, LEAKAGE, OR TREE GROWTH ON THE EMBANKMENT; THE CONDITION OF THE RIPRAP IN THE INLET, OUTLET, AND PILOT CHANNELS; SEDIMENT ACCUMULATION IN THE BASIN; CLOGGING OF OUTLET; AND THE VIGOR AND DENSITY OF THE VEGETATION ON THE BASIN SIDE SLOPES AND FLOOR. CORRECT OBSERVED PROBLEMS AS NECESSARY.

NOTE SIGNS OF HYDROCARBON BUILDUP SUCH AS FLOATING OIL ON WATER SURFACE. - INSPECT FOR DAMAGE TO THE EMBANKMENT AND INLET/OUTLET STRUCTURES. REPAIR AS NECESSARY. -MONITOR FOR SEDIMENT ACCUMULATION IN THE FACILITY AND FOREBAY. EXAMINE INLET AND OUTLET DEVICES TO ENSURE THEY ARE FREE OF DEBRIS AND ARE OPERATIONAL.

MAINTENANCE ACTIVITIES - (FREQUENCY)

ONE TIME
- REPLACE WET POND VEGETATION TO MAINTAIN AT LEAST 50% OF SURFACE AREA COVERAGE IN WET POND PLANTS AFTER THE SECOND GROWING SEASON.

AS NEEDED
- REPAIR UNDERCUT AREAS, EROSION TO BANKS, AND BOTTOM AS REQUIRED. WHERE PERMITTED BY THE DEPARTMENT OF FISH AND GAME OR OTHER AGENCY REGULATIONS, STOCK CONSTRUCTED WET PONDS REGULARLY WITH MOSQUITO FISH (GAMBUSIA SPP.) TO ENHANCE NATURAL MOSQUITO AND MIDGE CONTROL.

3 TO 4 TIMES PER YEAR
- CLEAN AND REMOVE DEBRIS FROM INLET AND OUTLET STRUCTURES.
- MOW SIDE SLOPES AND REMOVE GRASS CLIPPINGS. REMOVE LITTER AND DEBRIS FROM BANKS, BASIN BOTTOM, TRASH RACKS, OUTLET STRUCTURES, AND VALVES AS REQUIRED.

ANNUAL (IF NEEDED)
- -SUPPLEMENT WET POND PLANTS IF A SIGNIFICANT PORTION HAVE NOT ESTABLISHED (AT LEAST 50% OF THE SURFACE AREA).
- -REMOVE NUISANCE PLANT SPECIES.
- -CLEAN FOREBAY TO AVOID ACCUMULATION IN MAIN WET POND AREA TO MINIMIZE WHEN THE MAIN WET POND AREA NEEDS TO BE CLEANED.
- -HARVEST PLANT SPECIES IF VEGETATION BECOMES TOO THICK CAUSING FLOW BACKUP AND FLOODING. MORE FREQUENT PLANT HARVESTING MAY BE REQUIRED BY LOCAL VECTOR CONTROL AGENCIES.
- -FERTILIZE NEW VEGETATION ONE TIME ONLY. THE OWNER SHALL NOT FERTILIZE VEGETATION AFTER THE INITIAL OCCURRENCE.
- -MONITOR SEDIMENT ACCUMULATIONS, AND REMOVE SEDIMENT WHEN THE ACCUMULATED SEDIMENT VOLUME EXCEEDS 10-20% OF THE BASIN VOLUME. PLANTS ARE 'CHOKED' WITH SEDIMENT, OR THE WET POND BECOMES EUTROPHIC. IT IS SUGGESTED THAT THE MAIN AREA BE CLEANED ONE HALF AT A TIME WITH AT LEAST ONE GROWING SEASON IN BETWEEN CLEANINGS. THIS WILL HELP TO PRESERVE THE VEGETATION AND ENABLE THE WET POND TO RECOVER MORE QUICKLY FROM THE CLEANING.

PERMANENT SEEDING SPECIFICATIONS

SEEDING MIXTURE

SPECIES	RATE (LB/ACRES)
PREMIUM BERMUDA	60

NURSE PLANTS
BETWEEN APR 15 AND AUG. 15, ADD 10 LB/ACRE GERMAN MILLET OR 15 LB/ACRE SUDAN GRASS PRIOR TO MAY 1 OR AFTER AUG 15, ADD 25 LB/ACRE RYE (GRAIN)

SEEDING DATES

	BEST	POSSIBLE
EARLY SPRING:	FEB. 15-MAR. 20	FEB. 15-APR. 30
FALL:	SEPT. 1-SEPT. 30	SEPT. 1-OCT. 31

SOIL AMENDMENTS
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TEST IS NOT AVAILABLE APPLY 2 TONS/ACRE AGRICULTURAL GRADE LIMESTONE AND 1,000LBS/ACRE OF 10-10-10 FERTILIZER, OR APPLY 3,000-5,000 LB/ACRE SUDANGRASS. PRIOR TO MAY 1 OR AFTER AUG. 15, ADD 25 LB/ACRE RYE (GRASS)

MULCH
APPLY 4,000 LB/ACRE GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DICK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
IF GROWTH IS LESS THAN FULL ADEQUATE, REFERTILIZE THE SECOND YEAR. ACCORDING TO SOIL TESTS OR TOPDRESS WITH 500 LB/ACRE 10-10-10 FERTILIZER. MOW AS NEEDED. RESEED, FERTILIZE AND MULCH DAMAGED AREAS IMMEDIATELY.

AS-BUILT SURVEY:

UPON COMPLETION, CONTRACTOR TO SUBMIT NCRLS SEALED ASBUILT SURVEY OF POND, INCLUDING AUTOCAD POINTS TO OWNER/ENGINEER, INCLUDING BERM, SPILLWAY, SLOPES, MAIN POOL, FOREBAY, PIPES, INVERTS, RISER, RISER TOP ELEV, ORIFICE INVERTS, VEGETATIVE SHELF, ORIFICE DIAMETERS, ETC. TO OWNER/ENGINEER. ALL FEATURES SHALL BE WITHIN +/- 0.2 FT VERTICAL TOLERANCE OF THE DESIGN

POND NOTES

1. TOP OF BERM AND ALL SIDE SLOPES SHALL BE EITHER SODDED OR HYDROSEEDED TO ESTABLISH A DENSE STAND OF NON CLUMPING TURF GRASS
2. NO TREES SHRUBS OR WOODY VEGETATION IS ALLOWED ON THE TOP OF BERM OR SLOPES.
3. NO RIP RAP OR STONE IS ALLOWED IN THE BERM EMBANKMENT.
4. UNLESS DETERMINED OTHERWISE IN WRITTING BY THE CONTRACTORS GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL INSTALL A CLAY LINER IN THE POND UP TO THE ELEVATION NOTED
5. CONTRACTOR TO WATER PLANTINGS AND GRASS AS NEEDED
6. CONTRACTOR SHALL NOT BE RELEASED UNTIL AFTER THE POND HAS BEEN ASBUILT SURVEYED, PE CERTIFIED AND ACCEPTED BY NDENR.

STORMWATER WET POND PLANTING SPECIFICATIONS

1. ALL HERBACEOUS PLANTS WITHIN THE WET POND PROPER SHALL BE INSTALLED BETWEEN MARCH 15 AND JULY 31.
2. UNLESS OTHERWISE DESIGNATED, PLANTS SHOULD BE INSTALLED AS LARGE DRIFTS (I.E., MASSES OF A SINGLE SPECIES) WITHIN THEIR RESPECTIVE PLANTING AREAS.
3. INSTALL A SLOW RELEASE FERTILIZER TABLET NEXT TO EACH PLANT WITHIN THE WET POND PROPER. FOR HERBACEOUS SPECIES USE AG SAFE AQUATIC-TABS 20-10-5, 90 DAY CONTINUOUS FEEDING, 5 GRAMS, OR EQUIVALENT.
4. ALL PLANTS SHALL BE DIRECTLY DESCENDED FROM INDIVIDUALS GROWING WILD WITHIN 200 MILES OF THE PROJECT SITE. IF SUITABLE STOCK CANNOT BE OBTAINED, PLANTS OF OTHER GENETIC PROVENANCES MAY BE UTILIZED WITH THE APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
5. PLANT MATERIAL SHOULD CONFORM TO AMERICAN STANDARD NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. (SEE PLANT LIST AND NOTES 6, 7, 8).
6. ALL PLANT MATERIAL TO BE CONTAINER GROWN PLANTS OF AT LEAST 4.0 CUBIC INCHES CAPACITY.
7. A MINIMUM OF THREE(3) DIFFERENT SPECIES.

VEGETATIVE SHELF PLANTS:	(50 PLANTS PER 200 SF)
TOTAL:	1352 SF = 338 PLANTS

STORMWATER WET POND PLANTING TABLE

BOTANICAL NAME	COMMON NAME	QUANTITY
ASCLEPIAS INCARNATA	SWAMP MILKWEED	59
EUPATORIADELPHUS DUBIUS	DWARF JOE PYE WEED	59
CAREX TENERA	QUILL SEDGE	59
HIBISCUS LAEVIS	SCARLET ROSE MALLOW	59
RHYNCHOSPORA COLORATA	STARRUSH WHITETOP	59
LOBELIA ELONGATA	LONGLEAF LOBELIA	44

MELLOW MARSH FARMS (919) 742 1200

EMBANKMENT COMPACTION

1. ALL FILL MATERIAL FOR THE EMBANKMENT SHOULD BE PLACED IN LAYERS (OR LIFTS) NO GREATER THAN 6" THICK.
2. THE LARGEST SIZE PARTICLE SHOULD NOT BE GREATER THAN ⅔rd THE HEIGHT OF THE LIFT THAT IS 2".
3. EACH LAYER SHOULD BE THOROUGHLY COMPACTED BEFORE THE NEXT LAYER IS PLACED.
4. THE COMPACTION EFFORT ACHIEVED SHOULD BE ON AVERAGE 98% STANDARD PROCTOR ASTM D698.
5. THE MINIMUM COMPACTION EFFORT SHOULD BE 95% STANDARD PROCTOR ASTM D698.
6. THE MATERIAL FORMING THE EMBANKMENT SHOULD BE PLACED WITH SUFFICIENT MOISTURE TO ENSURE PROPER COMPACTION. THE MOISTURE CONTENT SHOULD BE IN THE RANGE OF -1% TO +3% OF OPTIMUM MOISTURE CONTENT (OMC).
7. BEFORE EACH ADDITIONAL 6" LIFT IS ADDED TO THE EMBANKMENT, THE PRECEDING LIFT SHOULD BE SCARIFIED TO ENSURE THAT THE TWO LIFTS ARE PROPERLY JOINED.
8. A WHEELED SCRAPER OR TRUCK SHOULD BE USED FOR PLACING THE CLAY ON THE DAM SITE. THE CLAY SHOULD THEN BE SPREAD BY THE USE OF THE BLADE ON A TAMPER FOOT ROLLER FROM A BULLDOZER TOWING A TAMPER FOOT ROLLER (SHEEPSFOOT ROLLER).

NOTE

THERE ARE NO EXISTING ONSITE SURFACE WATERS, WETLANDS, PROTECTED VEGETATED SETBACKS, NOR PROTECTED RIPARIAN BUFFERS ON THIS PROPERTY.

BASIN DEWATERING DURING CONSTRUCTION:

THE CONTRACTOR SHALL ARRANGE FOR THE GEOTECHNICAL ENGINEER TO PROVIDE FIELD GUIDANCE ON POND DEWATERING MEASURES DURING THE POND GRADING OPERATION.

SLOPE STABILITY:

AFTER THE POND HAS BEEN EXCAVATED, THEN THE CONTRACTOR SHALL ARRANGE FOR THE GEOTECHNICAL ENGINEER TO VISIT THE SITE TO EVALUATE THE EARTHEN SIDESLOPES STABILITY OF THE POND'S NATIVE SOILS. IF THE SLOPES ARE UNSTABLE, THEN THE CONTRACTOR SHALL UNDERCUT AND REMOVE NATIVE SOIL, AND IMPORT SUITABLE, STABLE CLAY SOILS FROM OFFSITE TO GRADE & COMPACT STABLE POND SIDESLOPES UNDER THE GEOTECHNICAL ENGINEER'S DIRECTION.

OPTIONAL SAFETY FENCE:

THE CONTRACTOR SHALL ASK THE OWNER IF THEY WANT A SAFETY FENCE CONSTRUCTED AROUND THE POND PERIMETER. IF YES, THEN THE CONTRACTOR SHALL CONSTRUCT THE SAFETY FENCE AROUND THE UPPER PERIMETER OF THE POND AND TOP OF BERM. THE FENCE MAY BE 42" HIGH GREEN OR BLACK VINYL COATED CHAIN LINK FENCE. 12' WIDE GATES FOR MAINTENANCE SHALL BE INSTALLED ADJACENT TO THE FOREBAY AND ANOTHER NEAR THE OUTLET CONTROL STRUCTURE.

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Raleigh, NC 27609
919.594.1626

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 032410 REGISTERED
Preliminary
DO NOT USE FOR CONSTRUCTION

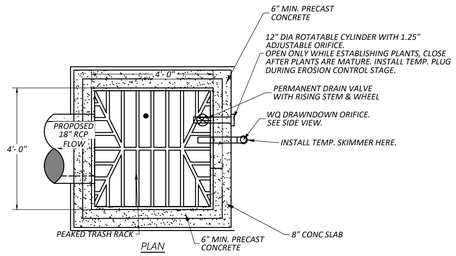
ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
CUR	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

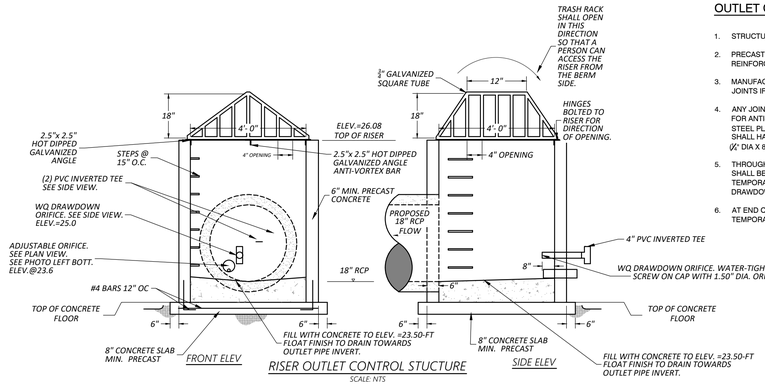
STORMWATER CONTROL NOTES

DESIGNED BY:	BR
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C6.11



PLAN

ADJUSTABLE ORIFICE

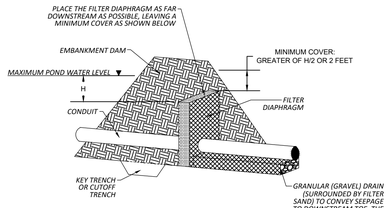


RISER OUTLET CONTROL STUCTURE

SCALE: NTS

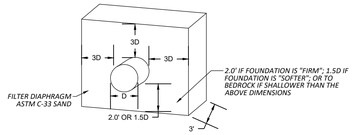
OUTLET CONTROL STRUCTURE NOTES

1. STRUCTURE SHALL BE PRECAST CONCRETE
2. PRECASTER SHALL DESIGN AND FURNISH ALL STEEL REINFORCING, WALL THICKNESS AND HARDWARE.
3. MANUFACTURE ENTIRE CONCRETE AS ONE SECTION WITH NO JOINTS IF PRACTICAL.
4. ANY JOINTS SHALL BE WATER TIGHT AND BE CONSTRUCTED FOR ANTI-FLOTATION. THEY SHALL HAVE (4) GALVANIZED STEEL PLATES 12" X 12" X $\frac{1}{4}$"; ONE PER SIDE. EACH PLATE SHALL HAVE (4) GALVANIZED STEEL BOLTS ($\frac{5}{8}$" DIA X 8" L MIN), FOR ANTI-FLOTATION.
5. THROUGHOUT GRADING OPERATION, TEMPORARY SKIMMER SHALL BE IN PLACE AND DRAIN VALVE OPEN. INSTALL TEMPORARY PLUG IN DETENTION DRAWDOWN AND WQ DRAWDOWN.
6. AT END OF PROJECT, AFTER SITE IS STABLE, REMOVED TEMPORARY PLUGS AND SKIMMER AND CLOSE VALVE.



SAND FILTER DIAPHRAGM

NOT TO SCALE



SAND FILTER DIAPHRAGM

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Preliminary
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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

STORMWATER CONTROL DETAILS

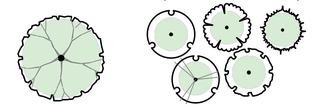
DESIGNED BY:	###
DRAWN BY:	###
CHECKED BY:	###
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C6.21

Do Not Use for Construction - PRELIMINARY

INV. 5.89' (W)
INV. 5.51' (E-OUT)
EX. 6" PVC
EX. 8" PVC
EX. MHSS #3
RIM: 10.94
INV. 4.50' (NW)
INV. 4.40' (E-OUT)
EX. 10" WATER MAIN
MAPLE PARKWAY
50' R/W (D.B. M PG 51)
CPNAIL
TBM #6091
20' STREET SETBACK
EX. 10" WATER MAIN
N/F
CURRITUCK COUNTY
D.B. 1062 PG. 356
BOOK M PG. 97
PIN: 8977-74-3776
PARCEL ID#: 005200000250000
ZONING: HI
MATCHLINE - SEE SHEET L1.11
MATCHLINE - SEE SHEET L1.12
COLLEGE WAY
60' R/W (D.B. M PG 51)
EX. 10" WATER MAIN
TBM #6090
SITE LANDSCAPING SHRUBS
SOD AREA (TYP.)
PERIMETER SHRUBS
60' CANOPY TREE COVERAGE FOR ALL PARKING SPACES (TYP.)
EXISTING 404 WETLANDS
EX. 10" WATER MAIN
EX. 8" PVC
EX. 6" PVC
EX. 8" PVC

NOTE: TREES SHOWN WITH COLOR APPLIED TO HERITAGE TREE REPLACEMENT REQUIREMENTS:

LIVE OAK: OAK (INCL. ALL OTHER SPP.):



EX. MHSS #2
RIM: 10.95
INV. 5.14' (W)
INV. 7.55' (S)
INV. 7.25' (NE)
INV. 5.10' (SE-OUT)

EX. MHSS #3
RIM: 10.94
INV. 4.50' (NW)
INV. 4.40' (E-OUT)

TBM #6091

MAPLE PARKWAY
50' R/W (P.B. N PG 51)

20' STREET SETBACK

60' CANOPY TREE COVERAGE FOR ALL PARKING SPACES (TYP.)

GRASS AREA (TYP.)

SOD AREA (TYP.)

INFIELD MIXTURE

CONC. WALK

QV 1	384 SF / 389 SF
QR 5	529 SF / 361 SF
IV 5	382 SF / 466 SF
IV 3	431 SF / 426 SF
TD 1	460 SF
UP 2	
QB 1	
QP 1	
QR 1	
QP 2	
IV 8	
TD 2	
QB 2	

MATCHLINE
SEE SHEET L1.12

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30' 0 15' 30'
SCALE 1 inch = 30 ft

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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

ENLARGED LANDSCAPE PLAN - NE

DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	L1.11

NOTE: TREES SHOWN WITH COLOR APPLIED TO HERITAGE TREE REPLACEMENT REQUIREMENTS:
LIVE OAK: OAK (INCL. ALL OTHER SPP.):

SEE SHEET L1.11
MATCHLINE

COLLEGE WAY
60' R/W (P.B. N 10, 51)

SOD AREA (TYP.)
INFIELD MIXTURE
OV 3
QP 1
368 SF
418 SF
UP 1
60' CANOPY TREE COVERAGE FOR ALL PARKING SPACES (TYP.)
QB 1
425 SF
432 SF
TD 2
GRASS AREA (TYP.)
UP 2
QP 2
TD 3
411 SF
425 SF
405 SF
QR 1
IV 24
QR 3
QV 1
QV 2
20' STREET SETBACK
CONC. WALK
EIR
N 39°54'E 184.80'
N 89°37'04" W 508.42'
S 77°21'0" W 180.64'

N/F
CRAWFORD HOLDINGS, INC.
D.B. 1773 PG. 131
PIN: 8977-73-5737
PARCEL ID#: 005200000240000
ZONING: GB

U.S. HWY. NO. 158
(100' PUBLIC R/W - BOOK K PG. 150)

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SCALE 1 inch = 30 ft (30' 0 15' 30')

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NOT TO BE USED FOR CONSTRUCTION
DOCUMENTS FOR REVIEW ONLY
NOT RELEASED FOR CONSTRUCTION
7/1/25

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

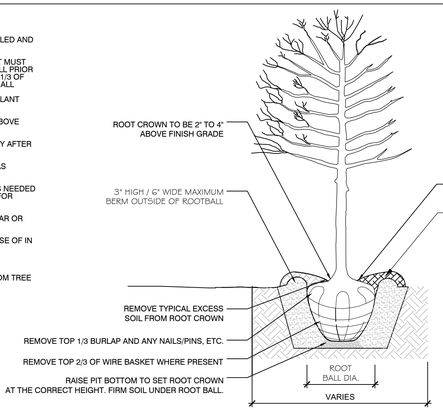
ENLARGED LANDSCAPE PLAN - SW

DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	L1.12

Do Not Use for Construction - PRELIMINARY

NOTES:

1. ALL TREES ARE TO BE NURSERY GROWN, BALLED AND BURLAP (B&B) OR CONTAINER GROWN.
2. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM THE ROOT BALL. REMOVE ALL SYNTHETIC MATERIALS: BURLAP, STRAPPING CORDAGE, ETC. PRIOR TO BACKFILLING ALL PLANT MATERIALS.
3. INSTALL TOP OF PLANT BALL TO BE 2" TO 4" ABOVE EXISTING GRADE.
4. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
5. SET TREE IN VERTICAL POSITION & STAKE IF/AS NEEDED
6. SUBMIT PREFERRED STAKING METHODS IF/AS NEEDED AND MATERIALS TO LANDSCAPE ARCHITECT FOR APPROVAL
7. ALL STAKING TO BE REMOVED AFTER ONE YEAR OR GROWING SEASON
8. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
9. RESEED UNMULCHED, DISTURBED AREAS.
10. MULCH AREA TO BE A MINIMUM 2' RADIUS FROM TREE TRUNK.



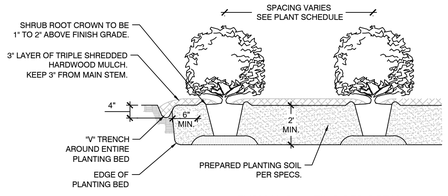
ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004)

FOR EXAMPLE: CALIPER	HEIGHT (RANGE)	MAX. HEIGHT	MIN. ROOT BALL DIA.	MIN. ROOT BALL DEPTH
2"	12-14'	16'	24"	18"
3"	14-16'	18'	32"	21"
4"	16-18'	22'	42"	25"

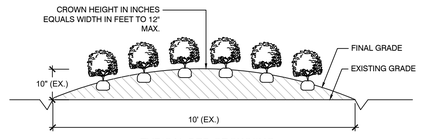
TREE PLANTING
SECTION — NTS

NOTES:

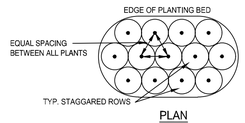
1. SCARIFY ROOT MASS OF CONTAINERIZED PLANT MATERIAL.
2. INSTALL CONTAINERIZED PLANTS 2" - 4" ABOVE FINISHED GRADE.
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
5. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.



TYPICAL PLANTING BED DETAIL

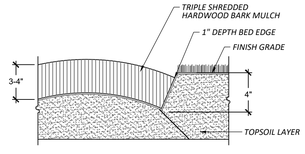


TYPICAL BED CROWNING



PLAN

SHRUB PLANTING BED
SECTION — NTS



BED TRENCHING
SECTION — NTS

PLANTING NOTES:

1. ALL PLANTINGS SHALL COMPLY WITH CURRENT LOCAL ORDINANCES AND GUIDELINES.
2. THIS PLAN IS FOR PLANTING LOCATIONS ONLY AND ALL PLANT MATERIAL SHALL BE SPACED AND LOCATED PER SCHEDULE. HOWEVER, CONTRACTOR TO SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITIES. IF FOUND CONDITIONS VARY FROM THIS PLAN, CONTRACTOR SHALL CONTACT OWNER AND LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO DO SO WILL RESULT IN CONTRACTOR'S LIABILITY TO REPLACE PLANT MATERIALS.
3. REFER TO PLANTING DETAILS FOR ADDITIONAL PLANTING INFORMATION.
4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PLANT WATERING AND MAINTENANCE, INCLUDING SHRUBS AND GROUNDCOVER, AND SHALL MAINTAIN AREA IN A WEED AND DEBRIS FREE CONDITION, THROUGHOUT GUARANTEE PERIOD.
5. CONTRACTOR TO VERIFY PLANT LIST TOTALS WITH QUANTITIES SHOWN ON PLAN.
6. ALL SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE JUDGED. FAILURE TO MEET MINIMUM SIZE ON ANY PLANT WILL RESULT IN REJECTION OF THAT PLANT.
7. PLANTING SIZE DETERMINATION:
   7.1. TREES: HEIGHT SHALL BE MEASURED FROM THE CROWN OF THE ROOT BALL TO THE TOP OF MATURE GROWTH. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH. SINGLE TRUNK TREES SHALL BE FREE OF "V" CROTCHES THAT COULD BE POINTS OF WEAK LIMB STRUCTURE OR DISEASE INFESTATION.
   7.2. ALL PLANTS SHALL BE FRESHLY DUG OR IN GROW POTS, SOUND, HEALTHY, VIGOROUS, WELL BRANCHED, FREE OF DISEASE, INSECT EGGS, AND LARVAE, AND SHALL BE WELL ROOTED.
8. FINISHED PLANTING BEDS SHALL BE GRADED SO AS TO NOT IMPEDE DRAINAGE AWAY FROM BUILDINGS. IF SIGNIFICANT RELOCATIONS ARE REQUIRED, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH RELOCATIONS KNOWN TO THE OWNER AND LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY FOR PLANT MATERIALS AND STORMWATER DAMAGE.
9. FIELD LOCATE AND VERIFY UNDERGROUND UTILITIES LOCATIONS PRIOR TO PLANTING. FINAL TREE LOCATIONS TO BE FIELD ADJUSTED TO AVOID CONFLICTS WITH UTILITIES, LIGHTING AND DRIVEWAY LOCATIONS WHERE POSSIBLE. CONTACT LANDSCAPE ARCHITECT FOR A COORDINATED SOLUTION FOR ANY UTILITY CONFLICTS. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ANY AND ALL PUBLIC OR PRIVATE UTILITIES.
10. TREES SHALL BE STAKED WITH AN AT GRADE TREE STAKING SYSTEM. STAKING MUST BE REMOVED AS SOON AS POSSIBLE OR WITHIN ONE (1) YEAR OF PLANTING. MULCH SHALL BE APPLIED IN AN EVEN THREE INCH (3") TO TO FOUR INCH (4") LAYER AROUND THE TREE PIT IN ACCORDANCE WITH ACCEPTED PRACTICES IN THE LANDSCAPE INDUSTRY.
11. CONTRACTOR SHALL NOT PLACE MULCH IN CONTACT WITH THE TRUNKS OF TREES OR SHRUBS.
12. ALL TREE PITS, SHRUB BEDS AND PREPARED PLANTING BEDS ARE TO BE COMPLETELY EXCAVATED IN ACCORDANCE WITH THE PLANTING DETAILS.
13. THE ROOT CROWN SHALL BE 1 INCH (1") TO 2 INCHES (2") ABOVE FINISHED GRADE (AFTER SETTLING) FOR SHRUBS AND TWO INCHES (2") TO FOUR INCHES (4") ABOVE FINISHED GRADE (AFTER SETTLING) FOR TREES.
14. ALL SUBSTITUTIONS OF PLANT MATERIAL ARE TO BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER PRIOR TO INSTALLATION. FAILURE TO OBTAIN SUBSTITUTION APPROVAL IN WRITING MAY RESULT IN LIABILITY TO THE CONTRACTOR.
15. DEAD PLANTS ARE TO BE REMOVED FROM THE JOB BY THE CONTRACTOR WEEKLY. CONTRACTOR SHALL MAINTAIN AN UPDATED, COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AND THE LANDSCAPE ARCHITECT AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
16. TOPSOIL REQUIRED FOR SOIL MIXES AND SPECIAL SEEDING AREAS SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR MUST LOAD, HAUL, MIX, AND SPREAD ALL TOPSOIL AND OTHER SOIL ADDITIVES AS REQUIRED.
17. THE PROPERTY OWNER AND/OR LESSEE SHALL, UPON COMPLETION OF THE GUARANTEE PERIOD AND FINAL ACCEPTANCE OF THE LANDSCAPE MATERIALS, MAINTAIN ALL LANDSCAPE MATERIALS AND LANDSCAPE AREAS IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, MOWING, FERTILIZING, TREATING PESTS, MULCHING, PRUNING, REMOVAL AND REPLACEMENT OF DEAD OR DISEASED TREES AND SHRUBS. MAINTENANCE SHALL BE PERFORMED ON A REGULAR BASIS IN ORDER TO MAINTAIN PLANT VIGOR AND STABILITY AND TO PRESENT A NEAT AND WELL-KEPT APPEARANCE AT ALL TIMES.
18. CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE IMPROVEMENTS, INCLUDING SEEDING, AS REQUIRED BY THE SPECIFICATIONS. CONTRACTOR MUST CONTACT THE OWNER AND THE LANDSCAPE ARCHITECT AT LEAST 10 WORKING DAYS IN ADVANCE TO SCHEDULE ACCEPTANCE INSPECTION(S). CONTRACTOR MUST REPLACE ALL DEAD OR UNACCEPTABLE PLANTS DURING THE FOLLOWING RECOMMENDED PLANTING SEASON.
19. ALL TREES AND SHRUBS SHALL MEET THE NORMAL REQUIREMENTS FOR THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN (AAN) OR AMERICAN HORT, ANSI Z60.1.
20. MULCH SHALL BE FREE OF DEBRIS AND WOOD CHIPS. IT SHALL CONSIST OF AGED TRIPLE-SHREDDED HARDWOOD MULCH, FREE OF EXCESS TANNIC ACID OR OTHER MULCH AS SPECIFIED ON THE PLANS. SAMPLES OF MULCH SHALL BE PROVIDED FOR THE THE LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO DELIVERING THE MULCH. THE OWNER RESERVES THE RIGHT TO REJECT ANY MULCH WHICH IS CONSIDERED TO BE UNSUITABLE. ALL MULCHES SHALL BE FREE OF ANY FOREIGN MATERIALS, PIECES LARGER THAN 6 INCHES, AND/OR GREEN WOOD.
21. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM THE ROOT BALL. REMOVE ALL SYNTHETIC MATERIALS: BURLAP, STRAPPING CORDAGE, ETC. PRIOR TO BACKFILLING ALL PLANT MATERIALS.
22. NO PLANTING IDENTIFIED AS REACHING A MATURE HEIGHT OF MORE THAN TWENTY FEET (20') SHALL BE PLACED WITHIN A TRANSMISSION POWER LINE RIGHT-OF-WAY OR WITHIN TEN FEET (10') OF AN OVERHEAD UTILITY LINE.
23. TREES WHICH OVERHANG THE PEDESTRIAN CIRCULATION ROUTES AT THE STREETS, SIDEWALKS OR WITHIN OPEN SPACE AREAS SHALL NOT EXTEND GREATER THAN FOUR INCHES INTO THE CIRCULATION ROUTE AT A HEIGHT LESS THAN 80 INCHES ABOVE THE ADJACENT GRADE. ALL TREES SHALL BE LIMBED TO PROVIDE 80 INCHES OF CLEARANCE AT WALKWAYS TO MEET A.D.A AND ANSI Z60.1 REQUIREMENTS.

LANDSCAPE NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE, AND MATERIAL OF EXISTING SITE AND VICINITY FEATURES AND UTILITIES PRIOR TO BEGINNING DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY DISCREPANCIES THAT ARE FOUND BETWEEN THE EXISTING FIELD CONDITIONS AND THE SITE PLANS OR CONSTRUCTION DRAWINGS, WHENEVER THEY ARE FOUND, DURING ALL PHASES OF SITE WORK.
2. THE PRUNING OF SCREENING SHRUBS SHALL ALLOW FOR LATERAL GROWTH OF BRANCHES SO AS TO FORM A HEDGE.
3. ALL LANDSCAPE ISLANDS, BEDS AND LAWNS SHALL BE GRADED FOR POSITIVE DRAINAGE WITH NO LOW SPOTS ALLOWING WATER TO BE TRAPPED.
4. CONTRACTOR SHALL PLANT TREES AND SHRUBS 5 FEET FROM BACK OF CURB WHEN PLANTED PERPENDICULAR FROM PARKING SPACES.
5. WHEEL STOPS ARE REQUIRED IF LANDSCAPING CANNOT BE SET BACK 5 FEET.
6. CONTRACTOR SHALL INSTALL ALL SHRUBS IN MULCHED BEDS.
7. CONTRACTOR SHALL INSTALL ALL TREES IN MINIMUM 4'-6" DIA. MULCHED BEDS.
8. WHERE TREES AND SHRUBS ARE LOCATED TOGETHER IN LANDSCAPE BUFFERS, THE CONTRACTOR SHALL MULCH THE FULL WIDTH AND LENGTH OF THE BUFFER.
9. ALL UN-MULCHED AREAS OF THE SITE SHALL BE SEEDED WITH LAWN GRASS. GRASS SEED SELECTION SHALL BE SUBMITTED TO AND APPROVED BY THE LANDSCAPE ARCHITECT, PRIOR TO PURCHASE AND INSTALLATION.

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Preliminary NOT FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

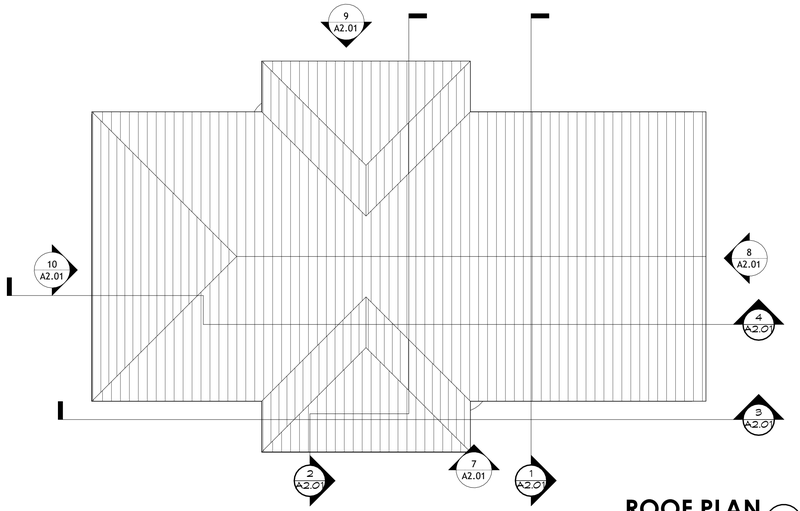
CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

LANDSCAPE NOTES & DETAILS

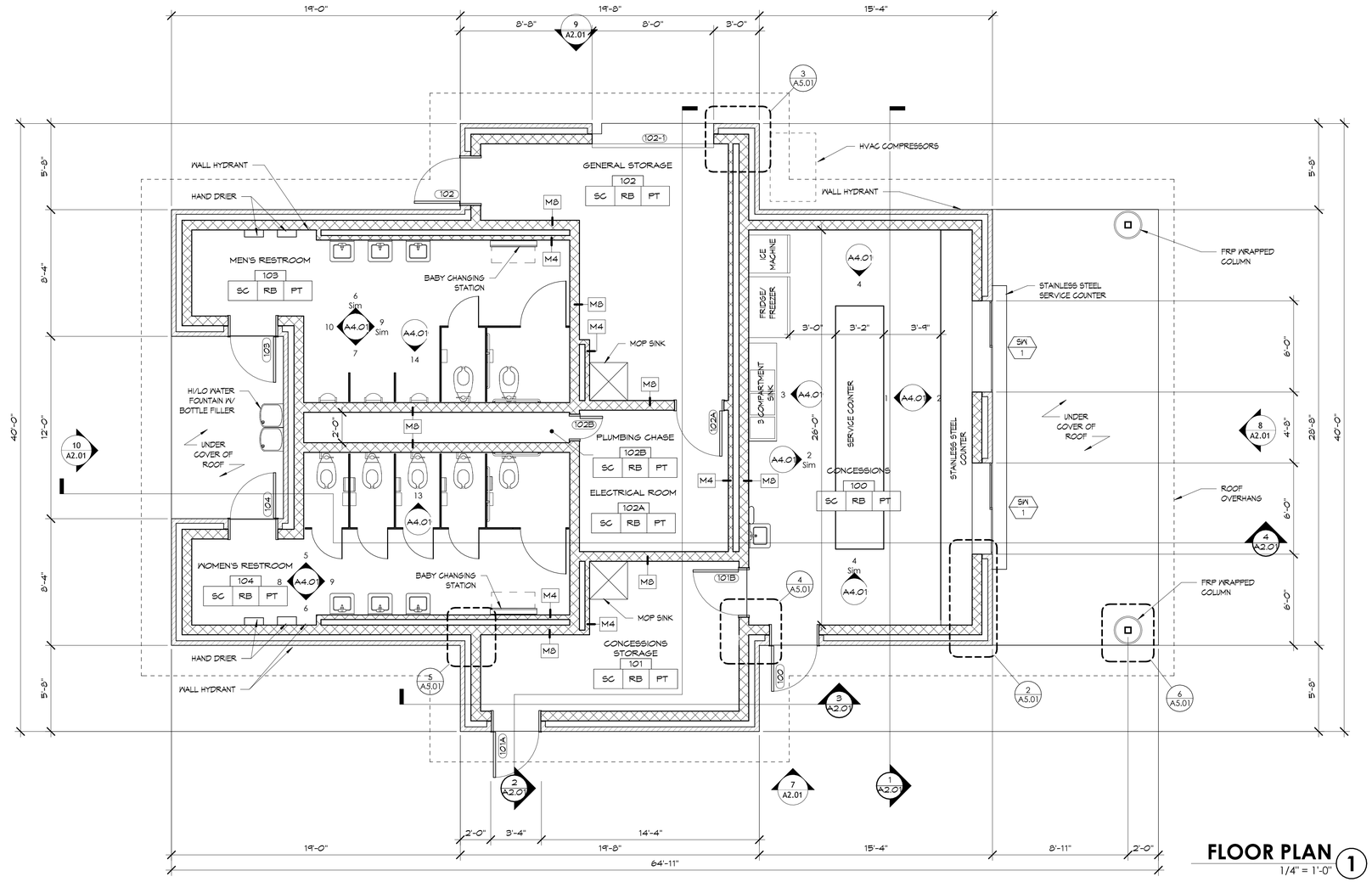
DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	L2.02

G:\WORKSPACE_GIS FILES_CAD_PLOTS\2022109\2022109_CURRITUCK COUNTRY PARK PHASE III\DRAWINGS\L1.01 LANDSCAPE NOTES & DETAILS - 8:30:2025 4:54:30 PM - SBF

FINISH SHCEDULE						
	TAG	FINISH TYPE	MANUFACTURER	STYLE/COLOR	ALTERNATE MANUFACTURER	REMARKS
FLOOR	EP	EPOXY1	TRI SOLUTIONS		STONHARD, LATICRETE OR EQUIVILANT	
WALL	PT	PAINT	SHERWIN WILLIAMS		BENJAMINE MOORE, VALSPAR OR EQUIVILANT	
BASE	RB	RUBBER BASE	JOHNSONITE		ROPPE, MOHAWK OR EQUIVILANT	INSTALLED THROUGH SCOPE AREA, UNO
CASEWORK	PLAM	PLASTIC LAMINATE	FORMICA		WILSONT ART, PANOLAM OR EQUIVILANT	
	SST	STAINLESS STEEL SURFACE	CUSTOM FABRICATION			
CEILING	ACT	ACOUSTICAL CEILING TILE	USG			ARMSTRONG, CERTAINTEED OR EQUIVILANT
OTHER	TS	TRANSITION STRIP	HANSTONE			ADA COMPLIANT



ROOF PLAN 6
1/8" = 1'-0"



FLOOR PLAN 1
1/4" = 1'-0"

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REVISIONS:

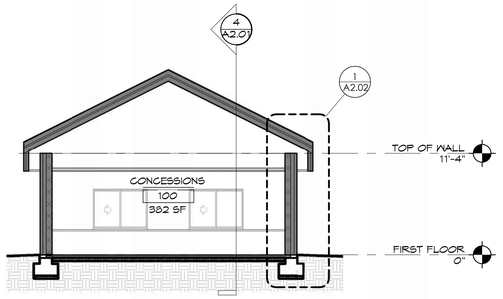
#	DESC:	DATE

DRAWN BY: DJH
PROJECT #: 22008
ISSUE DATE: 05/16/2025

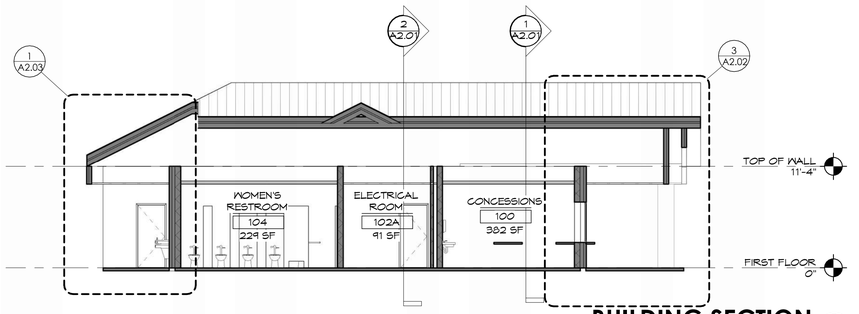
PHASE:
90% CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
FIRST FLOOR PLAN & ROOF PLAN

A1.01



BUILDING SECTION 1
1/8" = 1'-0"



BUILDING SECTION 4
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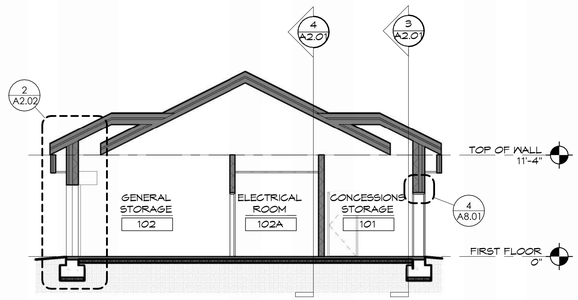

BUILDING SECTION 2
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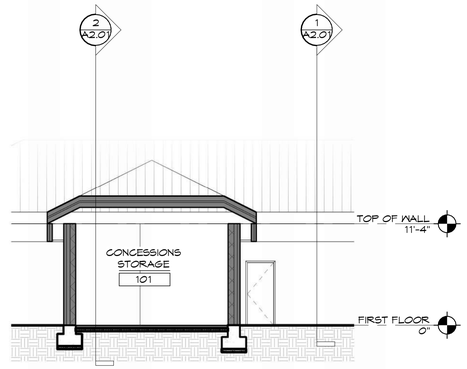
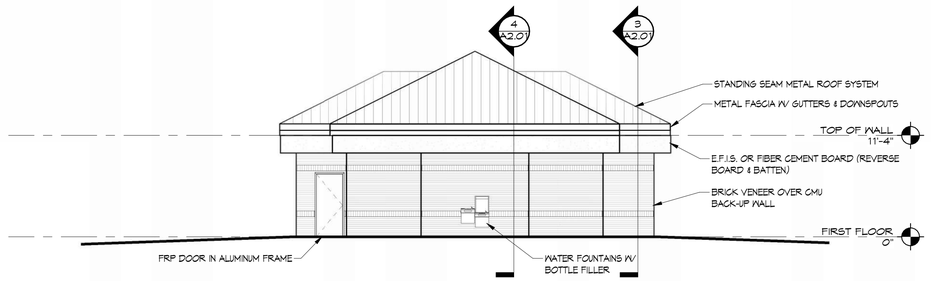
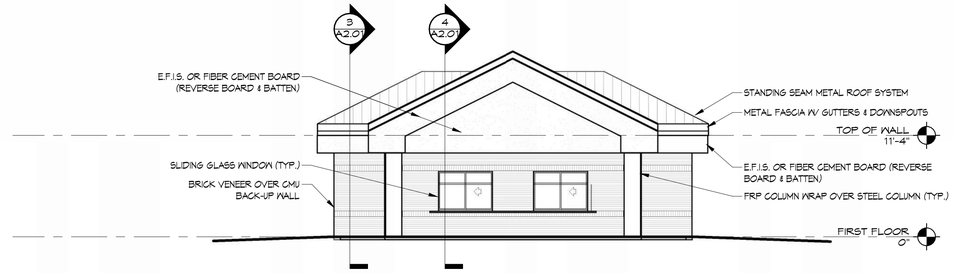


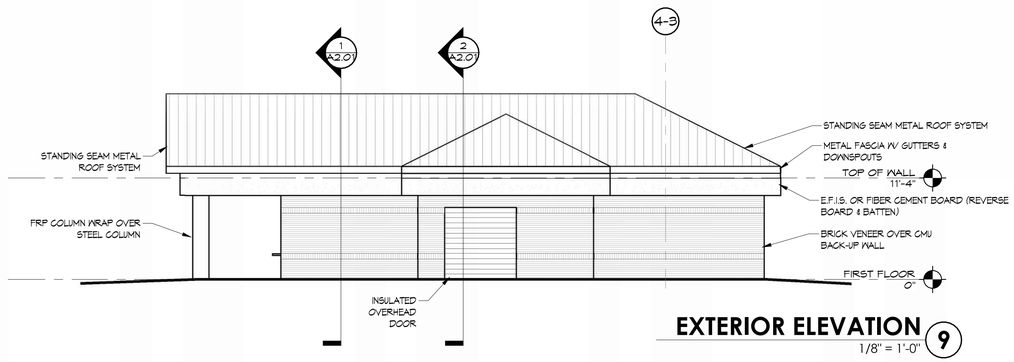
BUILDING SECTION 3
1/8" = 1'-0"



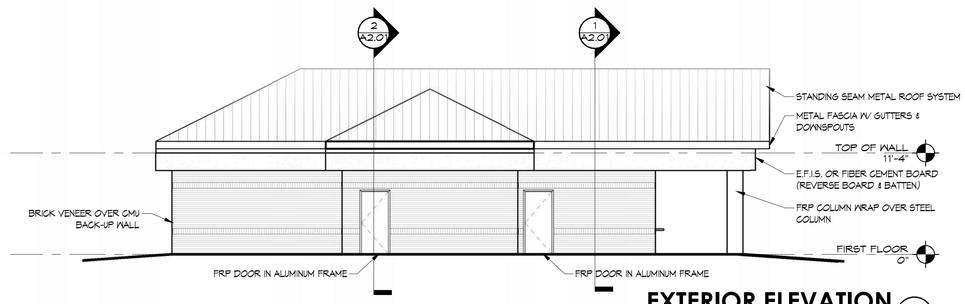
EXTERIOR ELEVATION 10
1/8" = 1'-0"



EXTERIOR ELEVATION 8
1/8" = 1'-0"



EXTERIOR ELEVATION 9
1/8" = 1'-0"



EXTERIOR ELEVATION 7
1/8" = 1'-0"

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#	DESC:	DATE

DRAWN BY: DJH
PROJECT #: 22008
ISSUE DATE: 05/16/2025
PHASE:
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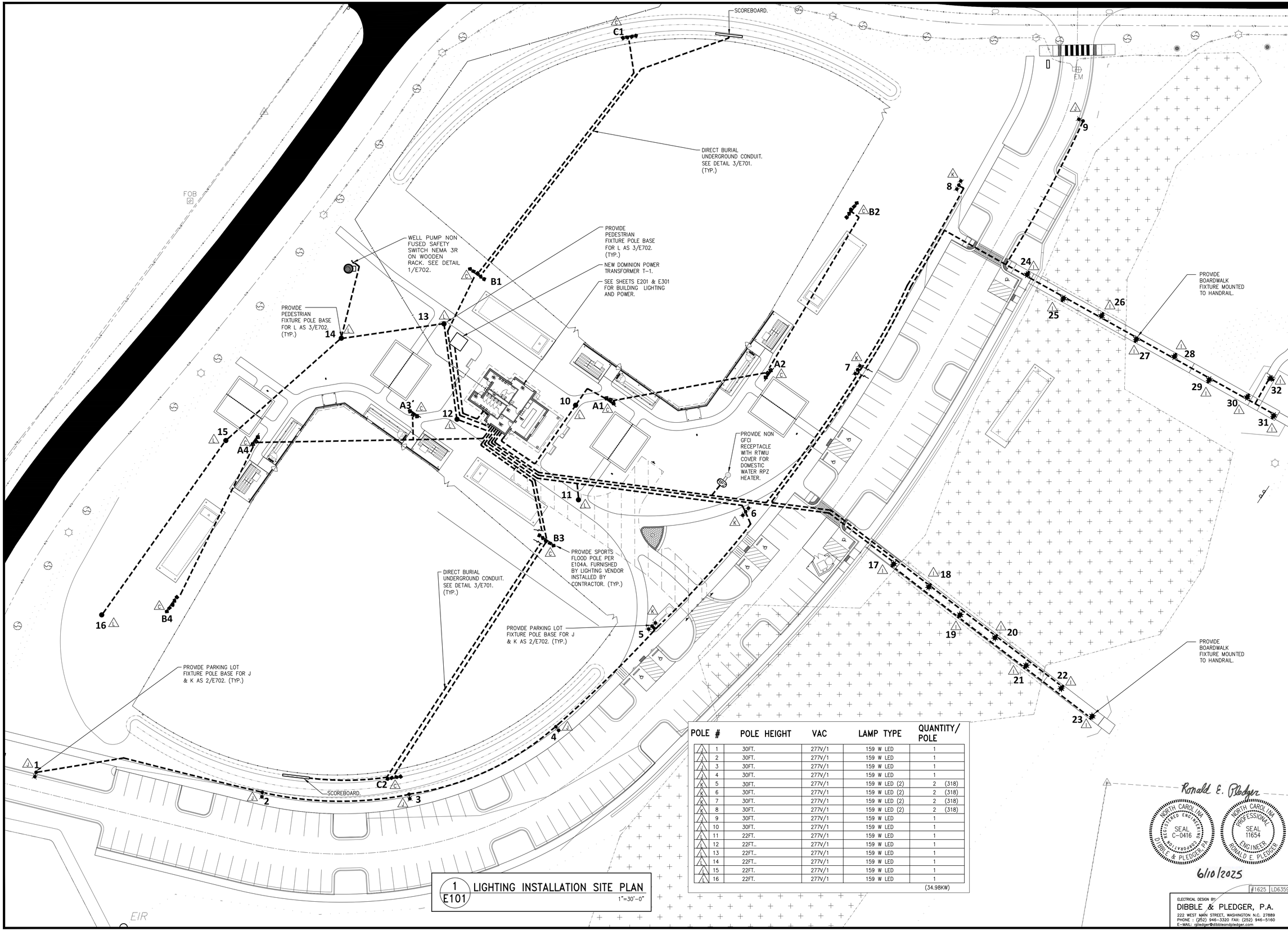
SHEET NAME & NUMBER
EXTERIOR ELEVATIONS & BUILDING SECTIONS

A2.01



POLE #		POLE HEIGHT	VAC	LAMP TYPE	QUANTITY/ POLE
J	1	30FT.	277V/1	159 W LED	1
J	2	30FT.	277V/1	159 W LED	1
J	3	30FT.	277V/1	159 W LED	1
J	4	30FT.	277V/1	159 W LED	1
K	5	30FT.	277V/1	159 W LED (2)	2 (318)
K	6	30FT.	277V/1	159 W LED (2)	2 (318)
K	7	30FT.	277V/1	159 W LED (2)	2 (318)
K	8	30FT.	277V/1	159 W LED (2)	2 (318)
J	9	30FT.	277V/1	159 W LED	1
J	10	30FT.	277V/1	159 W LED	1
J	11	22FT.	277V/1	159 W LED	1
J	12	22FT..	277V/1	159 W LED	1
J	13	22FT..	277V/1	159 W LED	1
J	14	22FT..	277V/1	159 W LED	1
J	15	22FT.	277V/1	159 W LED	1
J	16	22FT.	277V/1	159 W LED	1
					(34.98KW)

1 E101 LIGHTING INSTALLATION SITE PLAN
1"=30'-0"

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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	60% DD SET	1/14/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

LIGHTING & POWER SITE PLANS BALL FIELDS & PARKING LOT

Ronald E. Pledger

NORTH CAROLINA REGISTERED ENGINEERING CORPORATION SEAL C-0416 DIBBLE & PLEDGER, P.A.

NORTH CAROLINA PROFESSIONAL SEAL 11654 ENGINEER RONALD E PLEDGER

6/10/2025

DESIGNED BY:	REP
DRAWN BY:	WAW
CHECKED BY:	REP
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN

#1625 LD6359

ELECTRICAL DESIGN BY:
DIBBLE & PLEDGER, P.A.
222 WEST MAIN STREET, WASHINGTON N.C. 27889
PHONE : (252) 946-3320 FAX: (252) 946-5160
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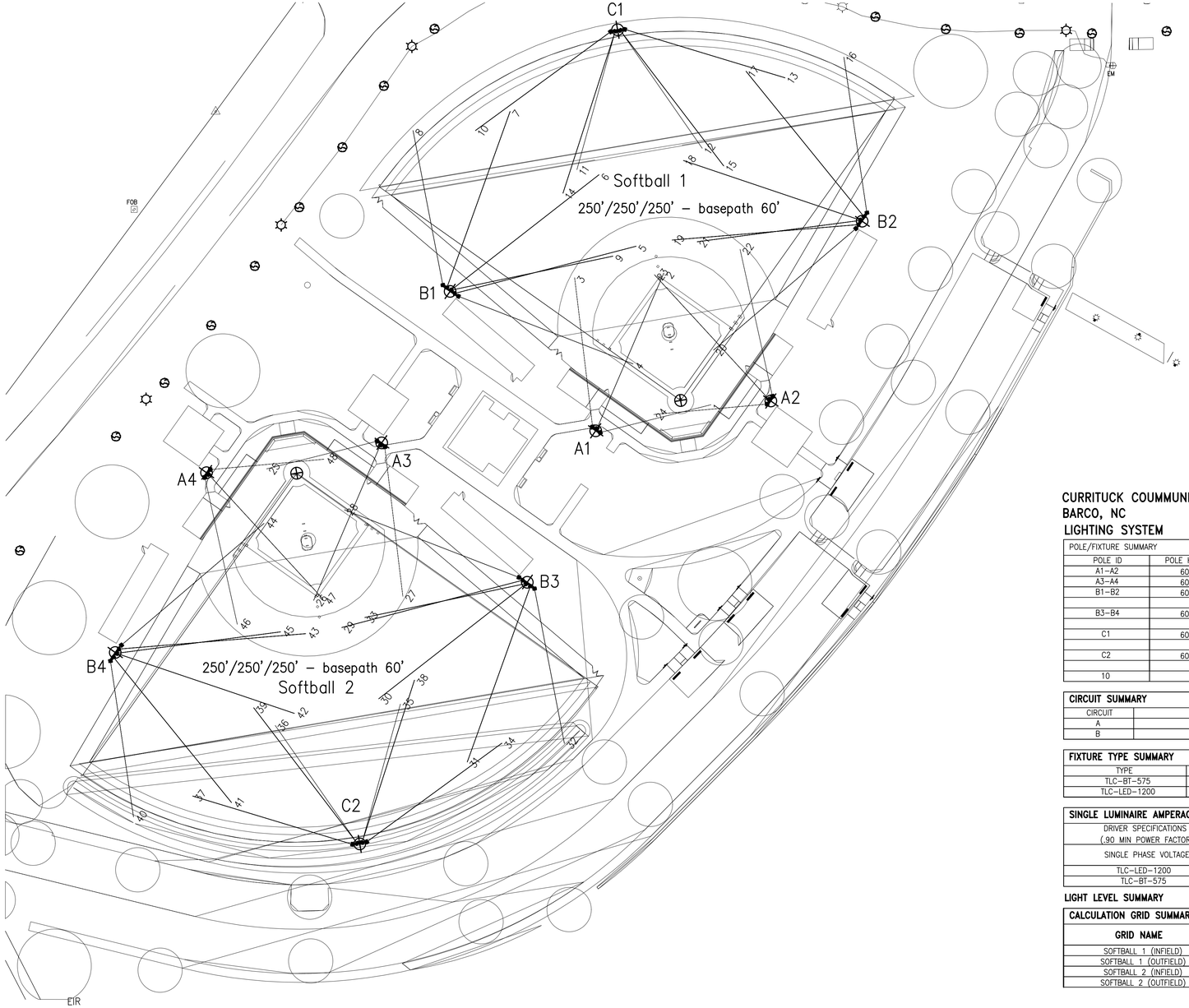
SHEET No.

E101



1 E102 LIGHTING POINT BY POINT SITE PLAN (FIELD #1 & FIELD #2) 1"=40'-0"

EQUIPMENT LAYOUT

INCLUDES:
- SOFTBALL 1
- SOFTBALL 2

ELECTRICAL SYSTEM REQUIREMENTS: REFER TO AMPERAGE DRAW CHART AND/OR THE "MUSCO CONTROL SYSTEM SUMMARY" FOR ELECTRICAL SIZING.

INSTALLATION REQUIREMENTS: RESULTS ASSUME ± 3% NOMINAL VOLTAGE AT LINE SIDE OF THE DRIVER AND STRUCTURES LOCATED WITHIN 3 FEET (1M) OF DESIGN LOCATIONS.

EQUIPMENT LIST FOR AREAS SHOWN

POLE				LUMINAIRES		
QTY	LOCAT.	SIZE	GRADE ELEV.	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/ POLE
4	A1–A4	60'	–	60'	TLC–LED–1200	3
4	B1–B4	60'	-	60' 15.5'	TLC–LED–1200 TLC–BT–575	5 1
2	C1–C2	60'	-	60' 15.5'	TLC–LED–1200 TLC–BT–575	4 2
10	Totals					48

SINGLE LUMINAIRE AMPERAGE DRAW CHART

DRIVER SPECIFICATIONS (.90 MIN POWER FACTOR)	LINE AMPERAGE PER LUMINAIRE (MAX DRAW)						
SINGLE PHASE VOLTAGE	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC–LED–1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC–BT–575	3.3	3.2	2.9	2.5	2.0	1.8	1.5

CURRITUCK COUMMUNITY PARK
BARCO, NC
LIGHTING SYSTEM

POLE/FIXTURE SUMMARY

POLE ID	POLE HEIGHT	MTG HEIGHT	Fixture Qty	LUMINAIRE TYPE	LOAD	CIRCUIT
A1–A2	60'	60'	3	TLC–LED–1200	3.51 kW	A
A3–A4	60'	60'	3	TLC–LED–1200	3.51 kW	B
B1–B2	60'	60'	5	TLC–LED–1200	5.85 kW	A
		16'	1	TLC–BT–575	0.57 kW	A
B3–B4	60'	60'	5	TLC–LED–1200	5.85 kW	B
		16'	1	TLC–BT–575	0.57 kW	B
C1	60'	60'	4	TLC–LED–1200	4.68 kW	A
		16'	2	TLC–BT–575	1.15 kW	A
C2	60'	60'	4	TLC–LED–1200	4.68 kW	B
		16'	2	TLC–BT–575	1.15 kW	B
10			48		51.40 kW	

CIRCUIT SUMMARY

CIRCUIT	DESCRIPTION	LOAD	FIXTURE QTY
A	SOFTBALL 1	25.70 kW	24
B	SOFTBALL 2	25.70 kW	24

FIXTURE TYPE SUMMARY

TYPE	SOURCE	WATTAGE	LUMENS	L90	L80	L70	QUANTITY
TLC–BT–575	LED 5700K – 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC–LED–1200	LED 5700K – 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	40

SINGLE LUMINAIRE AMPERAGE DRAW CHART

DRIVER SPECIFICATIONS (.90 MIN POWER FACTOR)	LINE AMPERAGE PER LUMINAIRE (MAX DRAW)						
SINGLE PHASE VOLTAGE	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC–LED–1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC–BT–575	3.3	3.2	2.9	2.5	2.0	1.8	1.5

LIGHT LEVEL SUMMARY

CALCULATION GRID SUMMARY

GRID NAME	CALCULATION METRIC	ILLUMINATION AVE					CIRCUITS	FIXTURE QTY
		AVE	MIN	MAX	MAX/MIN	AVE/MIN		
SOFTBALL 1 (INFIELD)	HORIZONTAL ILLUMINANCE	52.92	38.66	63.89	1.65	1.37	A	24
SOFTBALL 1 (OUTFIELD)	HORIZONTAL ILLUMINANCE	34.22	22.17	45.08	2.03	1.54	A	24
SOFTBALL 2 (INFIELD)	HORIZONTAL ILLUMINANCE	52.92	38.66	63.89	1.65	1.37	B	24
SOFTBALL 2 (OUTFIELD)	HORIZONTAL ILLUMINANCE	34.22	22.17	45.08	2.03	1.54	B	24

Ronald E. Pledger

NORTH CAROLINA REGISTERED ENGINEERING CORPORATION SEAL C-0416 DIBBLE & PLEDGER, P.A.

NORTH CAROLINA PROFESSIONAL SEAL 11654 ENGINEER RONALD E. PLEDGER

6/10/2025

#1625 LD6359

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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	60% DD SET	1/14/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA
SPORTS LIGHTING FIELD 1 & FIELD 2 POINT BY POINT

DESIGNED BY:	REP
DRAWN BY:	WAW
CHECKED BY:	REP
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	E102

LUMINAIRE LOCATION SUMMARY							
			INSERTION POINT				
LUMNO	LUMNO	LABEL	X	Y	Z	ORIENT	TILT
1		CC21x2-72L-700-5K7-3_1_1way	507.241	272.944	33	257.299	0
2		CC21x2-72L-700-5K7-4W	674.913	248.22	33	265.417	0
3		CC21x2-72L-700-5K7-4W	785.848	250.052	33	287.234	0
4		CC21x2-72L-700-5K7-4W	897.022	301.865	33	309.471	0
5		CC21x2-72L-700-5K7-4W_1	974.299	386.431	33	45.49	0
6		CC21x2-72L-700-5K7-4W_1	1036.25	466	33	50.382	0
7		CC21x2-72L-700-5K7-4W_1	1119.476	571.351	33	56.931	0
8		CC21x2-72L-700-5K7-4W_1	1195	709.25	33	63.1	0
9		CC21x2-72L-700-5K7-3_1_1way	1288.75	756.5	33	159.677	0
10		CC17x2-36L-730-4K7-3	909.25	545	24	53.323	0
11		CC17x2-36L-730-4K7-3	909.25	475.75	24	234.104	0
12		CC17x2-36L-730-4K7-3	820.949	534.569	24	234.663	0
13		CC17x2-36L-730-4K7-3	811.396	605.763	24	54.711	0
14		CC17x2-36L-730-4K7-3	734.771	595.098	24	234.083	0
15		CC17x2-36L-730-4K7-3	648.466	518.699	24	320.764	0
16		CC17x2-36L-730-4K7-3	556	388.75	24	332.945	0
17		WTA-27-VS-CP-BR-PC (11W, 4000	1144.311	424.639	3.5	54.664	0
18		WTA-27-VS-CP-BR-PC (11W, 4000	1173.818	411.424	3.5	234.75	0
19		WTA-27-VS-CP-BR-PC (11W, 4000	1194.483	386.949	3.5	51.791	0
20		WTA-27-VS-CP-BR-PC (11W, 4000	1223.168	373.206	3.5	227.562	0
21		WTA-27-VS-CP-BR-PC (11W, 4000	1243.748	350.293	3.5	52.055	0
22		WTA-27-VS-CP-BR-PC (11W, 4000	1273.589	334.134	3.5	231.876	0
23		WTA-27-VS-CP-BR-PC (11W, 4000	1293.39	311.814	3.5	51.815	0
24		WTA-27-VS-CP-BR-PC (11W, 4000	1271.376	623.477	3.5	60.327	0
25		WTA-27-VS-CP-BR-PC (11W, 4000	1306	613.25	3.5	242.021	0
26		WTA-27-VS-CP-BR-PC (11W, 4000	1326.969	592.411	3.5	66.743	0
27		WTA-27-VS-CP-BR-PC (11W, 4000	1357.452	583.137	3.5	241.212	0
28		WTA-27-VS-CP-BR-PC (11W, 4000	1381.005	561.77	3.5	62.259	0
29		WTA-27-VS-CP-BR-PC (11W, 4000	1411.275	551.353	3.5	243.284	0
30		WTA-27-VS-CP-BR-PC (11W, 4000	1435.149	532.659	3.5	61.188	0
31		WTA-27-VS-CP-BR-PC (11W, 4000	1425.542	576.207	3.5	316.831	0
32		WTA-27-VS-CP-BR-PC (11W, 4000	1448.467	592.156	3.5	134.697	0

LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	ARRANGEMENT	DESCRIPTION	TAG	LLF	LUMINAIRE LUMENS	LUMINAIRE WATTS	TOTAL WATTS
	7	CC17x2-36L-730-4K7-3	SINGLE	CC17x2-36L-730-4K7-3		1.000	9297	84.52	591.64
	16	WTA-27-VS-CP-BR-PC (11W, 4000	SINGLE	WTA-27-VS-CP-BR-PC (11W, 4000K)		1.000	1700	10.57	169.12
	2	CC21x2-72L-700-5K7-3_1_1way	SINGLE	1way		1.000	17871	158.56	317.12
	4	CC21x2-72L-700-5K7-4W_1	BACK-BACK	2way		1.000	18663	158.6	1268.8
	3	CC21x2-72L-700-5K7-4W	SINGLE	CC21x2-72L-700-5K7-4W		1.000	18663	158.6	475.8

1 E105 LIGHTING POINT BY POINT SITE PLAN (PEDESTRIAN & PARKING LOT) 1"=30'-0"

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NO.	DESCRIPTION	DATE	BY
	60% DD SET	1/14/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

PEDESTRIAN & PARKING LOT LIGHTING POINT BY POINT

Ronald E. Pledger

NORTH CAROLINA REGISTERED ENGINEERING FIRM C-0416 SEAL DIBBLE & PLEDGER, P.A.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 11654 RONALD E. PLEDGER

6/10/2025

DESIGNED BY:	REP
DRAWN BY:	WAW
CHECKED BY:	REP
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
	#1625 LD6359
SHEET No.	E105

ELECTRICAL DESIGN BY:
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CURRITUCK COMMUNITY PARK - PHASE III

SHORTCUT ROAD
BARCO, CURRITUCK COUNTY, NORTH CAROLINA 27917

JULY 1, 2025 - CURRITUCK COUNTY SITE PLAN SUBMITTAL

OWNER/DEVELOPER:

CURRITUCK COUNTY
JASON WEEKS
153 COURTHOUSE ROAD,
CURRITUCK NC, 27929
252-232-3007
JASON.WEEKS@CURRITUCKCOUNTYNC.GOV

CIVIL ENGINEER:

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LANDSCAPE ARCHITECT:

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ARCHITECT:

INTREPID ARCHITECTURE
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STRUCTURAL ENGINEER:

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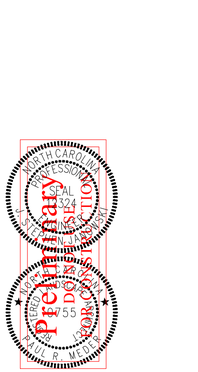

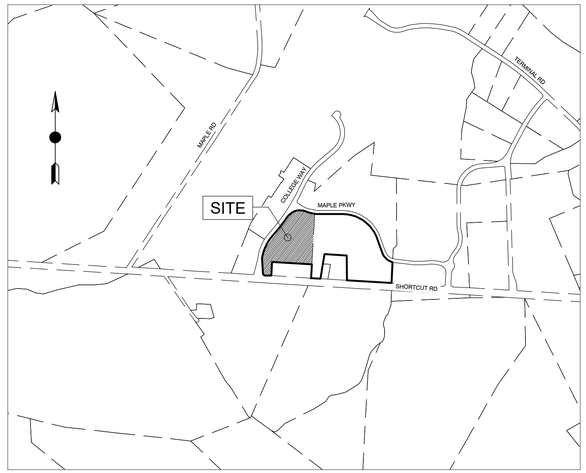

VICINITY MAP

1" = 1000' - 0"

Sheet List Table

Sheet Number	Sheet Title
C1.01	COVER
C1.02	GENERAL NOTES AND LEGENDS
C1.10	SURVEY
C1.21	EXISTING CONDITIONS AND DEMOLITION PLAN
C2.01	SITE PLAN
C2.02	FIRE APPARATUS ACCESS PLAN
C2.11	ENLARGED SITE PLAN - NE
C2.12	ENLARGED SITE PLAN - SW
C2.51	SITE DETAILS
C2.52	SITE DETAILS
C2.53	SITE DETAILS
C2.54	SITE DETAILS
C3.01	UTILITIES PLAN
C4.01	GRADING & DRAINAGE PLAN
C4.11	GRADING & DRAINAGE PLAN - NE
C4.12	GRADING & DRAINAGE PLAN - SW
C4.21	GRADING, DRAINAGE, & UTILITIES DETAILS
C5.01	SEDIMENTATION & EROSION CONTROL PLAN - STAGE 1A
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C5.11	EROSION CONTROL NOTES
C5.21	EROSION CONTROL DETAILS
C6.01	STORMWATER CONTROL PLAN
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L1.01	LANDSCAPE PLAN
L1.11	ENLARGED LANDSCAPE PLAN - NE
L1.12	ENLARGED LANDSCAPE PLAN - SW
L2.02	LANDSCAPE NOTES & DETAILS
A1.01	FIRST FLOOR PLAN & ROOF PLAN
A2.01	EXTERIOR ELEVATIONS & BUILDING SECTIONS
E101	LIGHTING & POWER SITE PLANS BALL FIELDS & PARKING LOT
E102	SPORTS LIGHTING FIELD 1 & FIELD 2 POINT BY POINT
E105	PEDESTRIAN PARKING LOT LIGHTING POINT BY POINT

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Do Not Use for Construction - PRELIMINARY

1. TOPOGRAPHICAL DATA PERFORMED BY RIVERS AND ASSOCIATES.

2. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OF FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. THE OWNER SHALL PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF ANY EXISTING FACILITIES.

3. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.

4. ALL STRUCTURAL FILL MATERIAL SHALL BE FREE OF ALL STICKS, ROCKS, AND CLUMPS OF MUD.

5. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN AN APPROVED SOLID WASTE LANDFILL.

6. PROPOSED ROADWAY CONSTRUCTION WITH WATER AND S.S.. STREETS TO HAVE STANDARD 30" VALLEY CURB. PRIVATE STREETS.

7. THERE IS EXISTING UNDERGROUND WATER, S.S., ELECTRICAL, OR FIBER OPTIC ON-SITE OR WITHIN CLOSE PROXIMITY. CONTRACTORS SHALL CALL 811 48 HOURS PRIOR TO DIGGING. CONTRACTORS SHALL DIG WITH EXTREME CAUTION.

8. CONCRETE SUB SHALL BE RESPONSIBLE FOR ALL SCORE JOINTS AND EXPANSION JOINTS, CONTRACTOR TO SUBMIT PROPOSED SCORE JOINT PLAN TO THE ENGINEER PRIOR TO POURING.

9. CONTRACTOR TO FURNISH ALL PAVEMENT MARKINGS AS SHOWN.

10. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CONTACT THE NC ONE CALL CENTER AT LEAST 72 HOURS PRIOR TO DIGGING @ 811. RIVERS AND ASSOCIATES HAS ONLY LOCATED THE UTILITIES THAT ARE ABOVE GROUND AT THE TIME OF FIELD SURVEY. UNDERGROUND LINES SHOWN HEREON ARE APPROXIMATE OR AS REPORTED BY VARIOUS RESPONSIBLE PARTIES. THE SURVEYOR DOES NOT GUARANTEE THAT ANY UNDERGROUND STRUCTURES SUCH AS UTILITIES, TANKS AND PIPES ARE LOCATED HEREON.

11. ALL PIPE LENGTHS ARE HORIZONATL DISTANCES AND ARE APPROXIMATE.

12. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND/OR LOCAL STANDARDS IMPOSED BY LOCAL UTILITY, NCDOT AND CURRITUCK COUNTY.

13. ALL CONSTRUCTION AND MATERIALS SHALL MEET CURRITUCK COUNTY AND NCDOT SPECIFICATIONS AND STANDARDS, LATEST EDITION. ALL WORK WITHIN NCDOT RIGHT-OF-WAY SHALL MEET THE SPECIFICATIONS AND STANDARDS OF NCDOT.

14. ALL CONCRETE PIPE IS TO BE ASTM C-76, CLASS III WITH RAM-NEK, UNLESS OTHERWISE NOTED.

15. THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD ZONE.

16. WETLANDS AND PONDS ARE DENOTED ON-SITE. NO IMPACTS TO WETLANDS ARE ANTICIPATED.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT RIGHT-OF-WAY. ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

18. PRIOR TO PLACING CABC STONE BASE, THE CONTRACTOR SHOULD NOTIFY THE PROJECT ENGINEER TO INSPECT AND PROOF ROLL THE SUBGRADE. ANY STONE PLACED WITHOUT PRIOR APPROVAL WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

19. DESIGN/FIELD CONDITIONS QUITE EASILY MAY VARY FROM THAT REPRESENTED IN THE INITIAL SOILS REPORT AND/OR TOPOGRAPHICAL REPORT. ISOLATED AREAS MAY SHOW UP WEAK AND ADVERSE SOILS OR GROUNDWATER CONDITIONS MAY BE DISCOVERED THAT WERE NOT REVEALED DURING THE INITIAL SOILS INVESTIGATION. THEREFORE, THE OWNER/CLIENT IS TO BE AWARE THAT STOCKS ENGINEERING WILL NOT AND CANNOT BE HELD RESPONSIBLE FOR ANY FAILURES TO EITHER A STREET OR PARKING LOT PAVEMENT DESIGN UNLESS WE CAN BE FULLY AND TOTALLY INVOLVED IN THE CONSTRUCTION PROCESS WHICH MAY INCLUDE, BUT MAY NOT NECESSARILY BE LIMITED TO, TESTING SUBGRADE AND BASE DENSITY, ENGAGING THE DESIGN ENGINEER TO CALL IN A SOILS ENGINEER FOR CONSULTATION AND ADVICE, ETC. - STEPS WHICH TAKEN ALTOGETHER WITH THE INITIAL DESIGN SHOWN ON THE PLANS, CONSTITUTE THE COMPLETE DESIGN OF THE ROAD, STREET OF PARKING AREA (PRIVATE OR PUBLIC). THE DESIGN ENGINEER MUST BE GIVEN THE FULL LATITUDE AND OPPORTUNITY TO COMPLETE THE DESIGN BY FULLY PARTICIPATING IN THE CONSTRUCTION PROCESS. PLAN DESIGN IS A SMALL PORTION OF THE DESIGN AND CANNOT BE SEPARATED FROM THE CONSTRUCTION PROCESS IF THE OWNER'S/CLIENT'S DESIRE IS TO HAVE THE DESIGN ENGINEER STAND BEHIND THE COMPLETED DESIGNED PROJECT.

20. ALL UTILITY SERVICES, (POWER, TELEPHONE, CABLE, ETC.) ARE PROPOSED TO BE UNDERGROUND. DO NOT SOD, SEED OR MULCH DISTURBED AREAS UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN INSTALLED.

21. SITE LIGHTING IS TO BE INSTALLED BY DUKE ENERGY.

22. PROPERTY IS TO BE SURVEYED BY CURRITUCK COUNTY .

23. THE BUILDING SETBACK LINES SHOWN ON THIS PLAT ARE FOR THE ENGINEER'S USE IN ESTABLISHING MINIMUM LOT FRONTAGES AT THE SETBACK LINE AND FOR RESERVING SUFFICIENT BUILDING AREA. BUILDING CONTRACTORS ARE TO VERIFY LOT LINE SETBACKS BEFORE SETTING FORMS OR DIGGING FOOTINGS. THERE ARE NO AGENCY IMPOSED SETBACK LINES AT FLOWERS.

24. REGULATORY SIGNS, STOP SIGNS AND ADA SIGNS SHALL BE MANUFACTURED FROM HIGH INTENSITY REFLECTIVE MATERIALS.

25. ALL EXCESS TOPSOIL AND UNCLASSIFIED EXCAVATION IS TO BE HAULED OFF-SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER.

26. ALL SITE CONSTRUCTION MUST BE INSPECTED BY THE PROJECT ENGINEER AT THE FOLLOWING STAGES:
A. COMPLETION OF GRADING SUB GRADE PRIOR TO TO PLACING STONE BASE.
B. COMPLETION OF STONE PLACEMENT PRIOR TO PAVING.
C. FINAL INSPECTION WHEN ALL WORK IS COMPLETE.

27. THE SURVEYOR DID NOT VISIBLY SEE ANY CEMETERIES IN ANY OPEN AREAS UNLESS OTHERWISE NOTED.

28. THIS PROPERTY DOES NOT DEPICT ENCUMBRANCES THAT ARE FOUND DURING A THOROUGH TITLE SEARCH.

29. ALL HVAC UNITS FOR THE PROPOSED BUILDING WILL BE SCREENED FROM PUBLIC RIGHT OF WAY.

30. ALL CURB AND GUTTER TO BE 30" STANDARD VALLEY CURB AND GUTTER. ALL CURB AND GUTTER WITHIN NCDOT R/W SHALL BE 30" STANDARD CURB AND GUTTER.

31. ALL CURB AND GUTTER AND SIDEWALK CONCRETE IS TO BE MINIMUM 3,000 PSI AT 28 DAYS, AIR ENTRAINED.

32. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS INDICATED OTHERWISE.

33. PROVIDE HANDICAP SIGNS, MARKING AND RAMPS AS SHOWN.

34. HANDICAP RAMPS ARE TO MEET "ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" AS DETAILED IN THE FEDERAL REGISTER, VOLUME 56, NUMBER 144 DATED JULY 26, 1991. RULES AND REGULATIONS ACTIVATED JANUARY 26, 1992. FOR ADDITIONAL INFORMATION REFER TO THE NC STATE BUILDING CODE VOLUME 1-C, "MAKING BUILDINGS AND FACILITIES ACCESSIBLE TO THE USEABLE BY THE PHYSICALLY HANDICAPPED", 1991 EDITION. ALL STREET RETURNS TO HAVE H.C. RAMPS. H.C. RAMPS SHALL MEET NCDOT STANDARDS/SPECIFICATIONS.

35. CONTRACTOR SHALL NOT POUR ANY CONCRETE BEFORE FORMS ARE INSPECTED BY THE PROJECT ENGINEER AND/OR OWNER. ANY CONCRETE THAT HAS NOT BEEN APPROVED BY THE ENGINEER AND/OR OWNER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

36. A 10' UTILITY, DRAINAGE AND ROAD MAINTENANCE EASEMENT IS RESERVED ALONG AND ADJACENT TO ALL STREET RIGHT OF WAYS.

37. CONTRACTOR SHALL SAW-CUT TO PROVIDE SMOOTH TRANSITIONS WHERE EXISTING ASPHALT AND/OR CURB AND GUTTER IS TO BE REMOVED.

38. THE CONTRACTOR SHALL PROVIDE ALL THE MATERIAL AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE UTILITIES. ALL PIPE AND FITTINGS SHALL BE INSPECTED PRIOR TO BEING COVERED.

39. ALL HANDICAP SPACES ARE TO RECEIVE A HANDICAP SIGN AND HANDICAP SYMBOL PAINTED ON THE ASPHALT. NOTE STALLS TO RECEIVE 'VAN ACCESSIBLE' SIGNAGE.

40. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE POINTS.

41. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 12 INCHES, WHICH EVER IS LESS, CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

42. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT PRICE THE REMOVAL AND DISPOSAL OF ANY EXCESS TOPSOIL/UNCLASSIFIED HE DETERMINES IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATION.

43. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. THE OWNER, SAMPSON COUNTY, CITY OF CLINTON & STOCKS ENGINEERING ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.

44. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES, CONSTRUCTION STAKEOUT ASSOCIATED WITH THE PROJECT.

45. ALL WATER LINE AND S.S. LINE INSTALLATION SHALL CONFORM TO THE STANDARDS AND DETAILS OF THE STATE OF NORTH CAROLINA DEPARTMENT OF HEALTH CONSTRUCTION PERMIT, CURRITUCK COUNTY.

46. ASPHALT PAVEMENT SHALL BE SMOOTH, WITH STRAIGHT OVERLAPPING SEAMS, FREE OF SEGREGATION, STAINS, BIRD BATHS, AND IMPERFECTIONS. ASPHALT PATCHING, SKIN PATCHES, OR RE-HEATING AND ROLLING WILL NOT BE ALLOWED. AREAS THAT ARE NOT ACCEPTABLE TO THE OWNER/ENGINEER WILL BE SAWCUT AND REMOVED. NO PATCH SMALLER THAN 200 SF WILL BE ALLOWED AND THE SAWCUTS MUST FALL ON A PAINT LINE OR EXISTING SEAM.

47. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE WATER AND S.S. LINES REQUIRED BY THE STATE OF NORTH CAROLINA DEPARTMENT OF HEALTH.

48. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DE-WATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.

50. TESTING BY CONTRACTOR: CONTRACTOR SHALL EMPLOY AT HIS EXPENSE AN OUTSIDE INDEPENDENT SOIL TESTING SERVICE (APPROVED BY THE OWNER) TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. COPIES OF RESULTS OF TESTS SHALL BE SUBMITTED BY THE TESTING SERVICE DIRECTLY TO THE CONTRACTOR, THE OWNER, AND THE STRUCTURAL ENGINEER. -- THE TESTING SERVICE WILL CLASSIFY PROPOSED ON-SITE AND BORROW SOILS TO VERIFY THAT SOILS COMPLY WITH SPECIFIED REQUIREMENTS AND TO PERFORM REQUIRED FIELD AND LABORATORY TESTING. (MINIMUM REQUIRED SOIL BEARING CAPACITY IS NOTED ON THE STRUCTURAL DRAWINGS). -- IN PAVED AND BUILDING SLAB AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 2000 SQUARE FEET OF FILL IN EACH COMPACTED FILL LAYER. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION. -- IN FOUNDATION WALL AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH OF FILL IN EACH COMPACTED FILL LAYER, WITH NO LESS THAN TWO TESTS ALONG A WALL FACE. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION.

51. COMPACTION: COMPACT EACH LAYER OF BACKFILL AND FILL SOIL MATERIALS AND THE TOP 12" OF SUBGRADE IN CUT AREAS TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 FOR STRUCTURES, SLABS, AND PAVEMENTS AND 90% OF MAXIMUM DENSITY FOR LAWNS OR UNPAVED AREAS.

52. THE BUILDING CONTRACTOR AND THE SITE WORK CONTRACTOR ARE TO COORDINATE THE INSTALLATION OF DRAINAGE PIPES AROUND THE BUILDING STRUCTURE.

53. ANY RELOCATION OF EXISTING UTILITIES WILL BE AT THE COST OF THE CONTRACTOR.

54. FIRE DEPARTMENT VEHICULAR ACCESS TO ALL STRUCTURES UNDER CONSTRUCTION SHALL BE PROVIDED AT ALL TIMES. IN AREAS WHERE GROUND SURFACE ARE SOFT OR LIKELY TO BECOME SOFT, HARD ALL WEATHER SURFACE ROADS SHALL BE PROVIDED AND MAINTAINED.

55. ADDRESS NUMBERS, BOTH COMMERCIAL AND RESIDENTIAL, MUST BE POSTED ON THE FRONT OF THE STRUCTURE NEAREST TO THE MAIN ENTRANCE IN A POSITION TO BE PLAINLY LEGIBLE, VISIBLE, AND UNOBSTRUCTED FROM THE STREET OR ROAD FRONTING THE PROPERTY.

56. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED CONSTRUCTION. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND REPLACEMENT OF ANY UTILITIES, CURB, GUTTER, PAVEMENT, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OF THE ORIGINAL WORKMANSHIP. THE CONTRACTOR SHALL VERIFY UTILITIES AND AVOID OR RELOCATE IF REQUIRED.

57. (CONSTRUCTION/SITE PLANS) WATER AND S.S. PERMIT APPLICATIONS HAVE BEEN APPROVED BY NCDEQ. PERMIT NUMBERS ARE AS FOLLOWS:
WATER PERMIT NUMBER: TO BE DETERMINED
S.S PERMIT NUMBER: TO BE DETERMINED

58. COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION. THIS INCLUDES APPROVED CONSTRUCTION PLANS, APPROVED EROSION CONTROL PLANS, ENCROACHMENT AGREEMENTS, DRIVEWAY PERMITS, WATER/S.S. PERMITS, ETC.

59. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL NCDOT, CURRITUCK COUNTY AND NCDENR STANDARDS AND SPECIFICATIONS.

60. ALL DRAINAGE CASTINGS TO RECEIVE BITUMINOUS COATING.

61. ALL DRAINAGE STRUCTURES OVER 42" DEEP SHALL HAVE STEPS.

62. FIRE HYDRANTS ARE TO BE INSTALLED AT EDGE OF RIGHT-OF-WAY AND AT PROPERTY CORNERS. LOCATIONS SHOWN ARE FOR CLARIFICATION.

63. MAINTAIN MINIMUM 3' COVER FOR ALL WATER PIPE.

64. WATERLINE PIPE SHALL BE C-900 PVC UNLESS OTHERWISE NOTED.

65. CORPORATION STOPS SHALL BE RATED A MINIMUM OF 300 PSI.

66. WHERE WATERLINE CROSSES:
A. SANITARY S.S.: WATERLINE SHALL CROSS ABOVE AND MAINTAIN 2' VERTICAL SEPARATION OR 10' OF HORIZONTAL SEPARATION. IF THIS SEPARATION CANNOT BE MAINTAINED OR IF WATER PASSES BELOW S.S., THEN BOTH WATER AND S.S. SHALL BE CLASS 50 DUCTILE IRON PIPE FOR A MINIMUM OF 10' EACH SIDE OF CROSSING.
B. STORM S.S: WHERE WATERLINE CROSSES ABOVE, MAINTAIN 1' VERTICAL SEPARATION. IF THIS SEPARATION CANNOT BE MAINTAINED OR WHERE WATER AND/OR S.S. CROSSES BELOW STORM, WATERLINE AND/OR S.S. SHALL BE CLASS 50 DUCTILE IRON PIPE FOR A MINIMUM OF 10' EACH SIDE OF CROSSING.

67. ALL GRAVITY S.S LINE IS SDR 35 PVC EXCEPT WHEN NOTED DIFFERNTLY ON PLANS OR AS FOLLOWS: ALL S.S LESS THAN 3' DEEP OR GREATER THAN 14' DEEP SHALL BE A MINIMUM CLASS 50 DUCTILE IRON.

68. EACH LOT SHALL HAVE A 4" S.S. SERVICE AND 3/4 WATER SERVICE AS SHOWN ON THE PLANS.

69. WATER SERVICES ARE TO BE GANGED AS SHOWN. GANGE SERVICES SHALL BE 1" IN A 1.5" PVC SLEEVE WHEN UNDER PAVEMENT.

70. WATER LINE TO BE PRESSURE TESTED TO 150 PSI FOR 2 HOURS.

71. DUCTILE IRON SANITARY S.S. SHALL HAVE THE INTERIOR COATED WITH SEWPER COAT OR PROTECTO 401.

72. CONTRACTOR TO TEST S.S. AND WATER LINE ACCORDING TO CURRITUCK COUNTY.

73. SANITARY S.S. SERVICES SHALL HAVE A DEPTH NO GREATER THAN 6' BELOW FINISHED GRADE AT TERMINATION OF LATERAL. THE LOCATION SHALL BE MARKED BY A 4" PVC TURN-UP AT THE END OF THE LATERAL. CONTRACTOR WILL MARK ALL S.S SERVICES WITH AN "S" IN THE FACE OF THE CURB.

74. WATER SERVICES SHALL HAVE A DEPTH NO GREATER THAN 6' BELOW FINISHED GRADE AT TERMINATION OF THE SERVICE. THE CONTRACTOR WILL MARK ALL WATER SERVICES WITH A "W" IN THE FACE OF THE CURB.

75. THE CONTRACTOR TO NOTIFY ENGINEER & CURRITUCK COUNTY 48 HRS PRIOR TO COMMENCEMENT OF CONSTRUCTION & ANY UTILITY BEING COVERED.

76. S.S. LINES SHALL BE PRESSURE TESTED WITH 5 PSI FOR 2 MINUTES WITH NO LEAKAGE.

77. S.S. MANHOLES SHALL BE EITHER VACUUM TESTED AT 10" MERCURY FOR 2 MINUTES WITH NO LEAKAGE OR PRESSURE TESTED AT 5 PSI FOR 2 MINUTES WITH NO LEAKAGE.

78. MANHOLES TO HAVE EPOXY COATING INSIDE (24 MILS) AND OUTSIDE (16 MILS) DONE IN 2 COATS BY THE MANUFACTURER PER NC SPECS. DIVISION 3, SECTION 9.3, HEAT SHRINK RUBBER CHIMNEY SEAL, AND ALL CASTINGS TO HAVE BITUMINIOUS COATING.

79. CURRITUCK COUNTY SPECIFICATIONS AND DETAILS MAY CONFLICT. THE MORE STRINGENT SHALL APPLY.

80. CONTRACTOR SHALL PRETEST ALL WATER AND S.S. PRIOR TO SCHEDULING INSPECTION WITH CURRITUCK COUNTY OR ENGINEER. RE-INSPECTIONS DUE TO FAILED TEST WILL BE BILLED TO THE CONTRACTOR AT $150 PER HOUR.

EXISTING CONDITIONS

LEGEND

CONTOURS
RIGHT OF WAY (R/W)
COUNTY GIS PARCEL LINES
TOP OF BANK (DITCH/SWALE)
TOE OF BANK (DITCH/SWALE)
CENTERLINE OF DITCH/SWALE
EASEMENT
COMMUNICATION LINE (NC811)
GAS LINE (GL) (NC811)
UNDERGROUND ELECTRIC (NC811 MARKING)
OVERHEAD ELECTRIC
GUY ANCHOR
SANITARY SEWER LINE (SS) (CITY OF KINSTON - NC811)
SEWER FORCE MAIN (CITY OF KINSTON)
WATER LINE (WL) (NC811 MARKING)
EDGE OF LANDSCAPING
STORM DRAINAGE PIPE
FENCE
WOOD LINE/ VEGETATION
EDGE OF CRUSHED ROCK
ROOF OVERHANG
BUILDING
HORIZONTAL CONTROL
TEMPORARY BENCHMARK (TBM)
SANITARY SEWER MANHOLE (SSMH)
CLEANOUT
TELEPHONE PEDESTAL
FIBER OPTIC MARKER
ROOF DRAIN
WOOD POST
METAL POST
MAIL BOX
SHRUB
WATER VALVE
WATER METER
FIRE HYDRANT
HOSE BIB
SIGN
LIGHT POLE
UTILITY POLE
UTILITY POLE W/ LIGHT
ELECTRIC METER
EMERGENCY SHUT OFF
GAS METER
GAS CONNECTION
EXISTING IRON PIPE
EXISTING IRON ROD
EXISTING RIGHT OF WAY MONUMENT DISTURBED

EROSION CONTROL LEGEND

EXISTING CONTOURS
PROPOSED CONTOURS
LIMITS OF DISTURBANCE
BASIN DRAINAGE BOUNDARY
TREE PROTECTION FENCE
SILT FENCE
SUPER SILT FENCE
COMBO TREE PRO/SILT FENCE
SILT FENCE OUTLET
DIVERSION DITCH
CLEAN WATER DITCH
POROUS BAFFLE
STORM DRAINAGE PIPE
RIP-RAP ENERGY DISSIPATORS
CONSTRUCTION ENTRANCE
ROLLED EROSION CONTROL
MATTING
TEMP. INLET PROTECTION
COMPOST SOCK
TEMPORARY STOCKPILE
TEMP. ROCK CHECK DAM
CONCRETE WASHOUT

GRADING AND STORM DRAINAGE

LEGEND

EXISTING		PROPOSED
	EXISTING CONTOURS	
	LIMITS OF DISTURBANCE	LOD
	TREE PROTECTION FENCE	TP
	COMBO TREE PRO/SILT FENCE	SF-TP
	CATCH BASIN	
	STORM SEWER MANHOLE	
	DROP INLET	
	RAISED TOP YARD INLET	
	OUTLET CONTROL STRUCTURE	
	FLARED END SECTION	
	END WALL	
	STORM SEWER	

BACK OF CURB SPOT ELEVATION × 13.55 BC
TOP OF CONCRETE SPOT ELEVATION × 12.45 TC
TOP OF ASPHALT SPOT ELEVATION × 11.30 TA
BOTTOM OF RAMP SPOT ELEVATION × 11.56 BR
TOP OF RAMP SPOT ELEVATION × 13.50 TR
FINISH GRADE SPOT ELEVATION × 12.24 FG
TOP OF BOARDWALK SPOT ELEVATION × 14.00 TBW
TOP OF BANK SPOT ELEVATION × 11.09 TB
HIGH POINT SPOT ELEVATION × 10.50 HP
FINISHED GRADE SLOPE 1.25%

EXISTING CONDITIONS ABBREVIATIONS

OD	OUTSIDE DIAMETER
EL.	ELEVATION
HPST	HIGH PRESSURE STEEL
HVAC	HEATING, VENTILATION, AIR CONDITIONING
N/F	NOW OR FORMERLY
P.N.	PARCEL NUMBER
D.B.	DEED BOOK
P.C.	PLAT CABINET
SL.	SLIDE
PG.	PAGE
CLF	CHAIN LINK FENCE
BW	BARBED WIRE
CONC.	CONCRETE
TYP.	TYPICAL
UGE	UNDERGROUND ELEC.
PVC	POLYVINYL CHLORIDE (WL)
DIP	DUCTILE IRON PIPE
CM	CREPE MYRTLE
TEL.	TELEPHONE
CBBC	CATCH BASIN BACK OF CURB
DI	DRAINAGE INLET
HCR	HANDICAP RAMP
FFE	FINISH FLOOR ELEVATION
INV	INVERT
(E)	EAST
(W)	WEST
(N)	WEST
(S)	SOUTH
CP	CONCRETE PIPE

UTILITY PLAN

LEGEND

EXISTING		PROPOSED
	FIRE HYDRANT	
	WATER VALVE	
	WATER FITTING	
	WATER TEE	
	WATER CROSS	
	WATER REDUCER	
	PLUG	
	WATER METER	
	WATER FOUNTAIN	
	CLEANOUT	
	SANITARY SEWER MANHOLE	
	CATCH BASIN	
	STORM SEWER MANHOLE	
	DROP INLET	
	RAISED TOP YARD INLET	
	FLARED END SECTION	
W	DOMESTIC WATER LINE	W
F	FIRE WATER LINE	F
RCW	RECLAIMED WATER LINE	RCW
S	SANITARY SEWER	S
FM	FORCE MAIN	FM
	STORM SEWER	
G	GAS LINE	G
FO	FIBRE OPTIC	FO

LIST OF ABBREVIATIONS

AC	ACRE
BNDY	BOUNDARY
BOC,BC	BACK OF CURB
BOW	BACK OF WALK
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
BW	BOTTOM OF WALL (AT FINISHED GRADE)
C&G	CURB AND GUTTER
CB	CATCH BASIN
CIP	CAST-IN-PLACE
CFS	CUBIC FOOT PER SECOND
CL	CONTROL LINE/CENTER LINE
CMP	CORUGATED METAL PIPE
CONC.	CONCRETE
CU. FT (CF)	CUBIC FOOT
CU YD(CY)	CUBIC YARD
DCB	DOUBLE CATCH BASIN
DA	DRAINAGE AREA
DB	DEED BOOK
DBH	DIAMETER AT BREAST HEIGHT
DG	DESIGN GROUND
DI	DROP INLET
DIP	DUCTILE IRON PIPE
D/S	DOWNSTREAM
DWG	DRAWING
ECM	EXISTING CONCRETE MONUMENT
EIA	EXISTING IRON AXLE
EIP	EXISTING IRON PIPE
EIR	EXISTING IRON ROD
ELEV, EL	ELEVATION
EOA	EDGE OF ASPHALT
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
ESC	EROSION AND SEDIMENT CONTROL
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EW	END WALL
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FT.	FEET
FUT	FUTURE
G.S.	GENERAL STATUTE
HGL	HYDRAULIC GRADE LINE
HDPE	HIGH DENSITY POLYETHELENE
HP	HIGH PERFORMANCE POLYPROPYLENE
INV	INVERT
L	LENGTH
LBS	POUNDS
L_W	WEIR LENGTH
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
NAD	NORTH AMERICAN DATUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OBV	OBVERT
OG	ORIGINAL GROUND
O/S	OFFSET
OS	OUTSIDE
PL	PROPERTY LINE
PREC	PRECAST
PROP	PROPOSED
PVC	POLY VINYL CHLORIDE
PVI	POINT OF VERTICAL INFLECTION
PS	PUMP STATION
RTYI	RAISED TOP YARD INLET
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
SA	SURFACE AREA
SAN	SANITARY
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SF	SILT FENCE
SHLD	SHOULDER
SMH	SANITARY MANHOLE
SS	SANITARY SEWER
STM	STORM
STMH	STORM MANHOLE
STA	STATION
STD	STANDARD
SQ. FT (SF)	SQUARE FOOT
SQ YD(SY)	SQUARE YARD
TK	THICKNESS
TBA	TO BE ABANDONED
TBD	TO BE DETERMINED
TBR	TO BE REMOVED
TC	TOP OF CONCRETE
TP	TREE PROTECTION FENCING
TSB	TEMPORARY SKIMMER BASIN
TST	TEMPORARY SEDIMENT TRAP
TYP.	TYPICAL
TW	TOP OF WALL (AT FINISHED GRADE)
U/S	UPSTREAM
QTY	QUANTITY
VC	VERTICAL CURVE
YI	YARD INLET
W	WIDTH

NOTE: THIS LIST MAY NOT BE INCLUSIVE OF ALL ABBREVIATIONS USED WITHIN THE CONSTRUCTION DRAWING SET. IF THE CONTRACTOR IS UNSURE OF AN ABBREVIATION OR TERMINOLOGY USED WITHIN THIS CONSTRUCTION SET, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ENGINEER FOR CLARIFICATION. THE ENGINEER OR THE OWNER WILL NOT BE HELD LIABLE FOR MISINTERPRETATION OF THE CONSTRUCTION PLAN SET BY THE GENERAL CONTRACTOR OR ANY OF HIS SUB-CONTRACTORS.

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3533 Six Forks Road
Raleigh, NC 27609
919.594.1626

Preliminary NOT FOR CONSTRUCTION

ISSUE/REVISIONS:

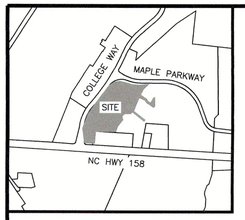
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

GENERAL NOTES AND LEGENDS

DESIGNED BY:	N/A
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C1.02

Do Not Use for Construction - PRELIMINARY



VICINITY MAP
(1"=1,000')

HORIZONTAL SURVEY CONTROL

POINT	LOCAL NORTHING (US FT-GROUND)	LOCAL EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION	GRID NORTHING (US FT-NAD 83/2011)	GRID EASTING (US FT-NAD 83/2011)
100	974,609.29'	2,877,953.10'	11.71'	CPNAIL-GPS 100	974,609.29'	2,877,953.07'
101	974,561.07'	2,878,353.97'	11.30'	CPNAIL-GPS 101	974,561.07'	2,878,353.97'

PROJECT CONTROL LOCALIZED TO GROUND AROUND RIVERS CONTROL POINT 101; CALCULATED COMBINED FACTOR = 0.99992410

VERTICAL SURVEY CONTROL

POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION
6091	974,627.72'	2,878,004.48'	15.50'	TOP OF HYDRANT
6090	974,172.87'	2,877,126.35'	12.43'	TOP OF HYDRANT

NORTH CAROLINA COUNTY OF CURRITUCK

I, JAMES W. ATKINSON III, P.L.S., CERTIFY THAT THE EXISTING TOPOGRAPHIC AND PLANIMETRIC INFORMATION SHOWN HEREON WAS DRAWN UNDER MY DIRECTION FROM AN ACTUAL SURVEY MADE BY JA, JS, AND GS ON 8/22/24–12/9/24 OF THE AREA SHOWN. BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM INFORMATION FOUND IN REFERENCED BOOK(S) AND PAGE(S). THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+, AND IN ACCORDANCE WITH THE US NATIONAL MAPPING ACCURACY STANDARDS. THE MAXIMUM VERTICAL ERROR IS NOT GREATER THAN ONE–HALF THE CONTOUR INTERVAL EXCEPT AS NOTED; THAT VERTICAL CONTROL WAS ESTABLISHED TO THE CLASS 'C' STANDARD VIA MULTIPLE NCGS RTN OBSERVATIONS ON CONTROL POINTS.

1) CLASS OF SURVEY:	CLASS A (HORIZ) CLASS C (VERT)
2) POSITIONAL ACCURACY:	2 CM(HORZ)
3) TYPE OF GPS FIELD PROCEDURE:	NCGS VRS RTN
4) DATE OF SURVEY WORK:	8/22/24 – 12/9/24
5) DATUM/EPOCH:	NAD83/2011
6) PUBLISHED CONTROL/FIXED CONTROL:	NCGS VRS RTN
7) GEOID MODEL:	GEOID18
8) COMBINED GRID FACTOR:	0.99992410
9) UNITS:	US SURVEY FEET

AND THAT THIS SURVEY MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600); WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 25TH *DAY OF JUNE, A.D. 2025.*

6/25/25
PROFESSIONAL LAND SURVEYOR LICENSE NO. L-5359

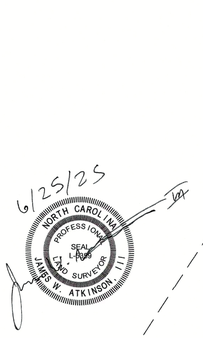
1. THE PURPOSE OF THIS PLAT IS TO DEPICT THE EXISTING TOPOGRAPHY AND PLANIMETRIC FEATURES OF THE SUBJECT PARCELS, AS OF THE DATE OF THIS SURVEY.
2. PROPERTIES SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS OF WAY, RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD.
3. ALL DISTANCES ARE HORIZONTAL GROUND MEASURED UNLESS SHOWN OTHERWISE.
4. THE PROPERTY IS LOCATED IN A ZONE "X" (AREAS OUTSIDE 1% ANNUAL CHANCE FLOOD 100 YEAR), AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 3720896600L, PANEL 8966, DATED 12/21/2018.
5. SURVEY AREA = 12.27 ACRES +/–. AREA DETERMINED BY COORDINATES.

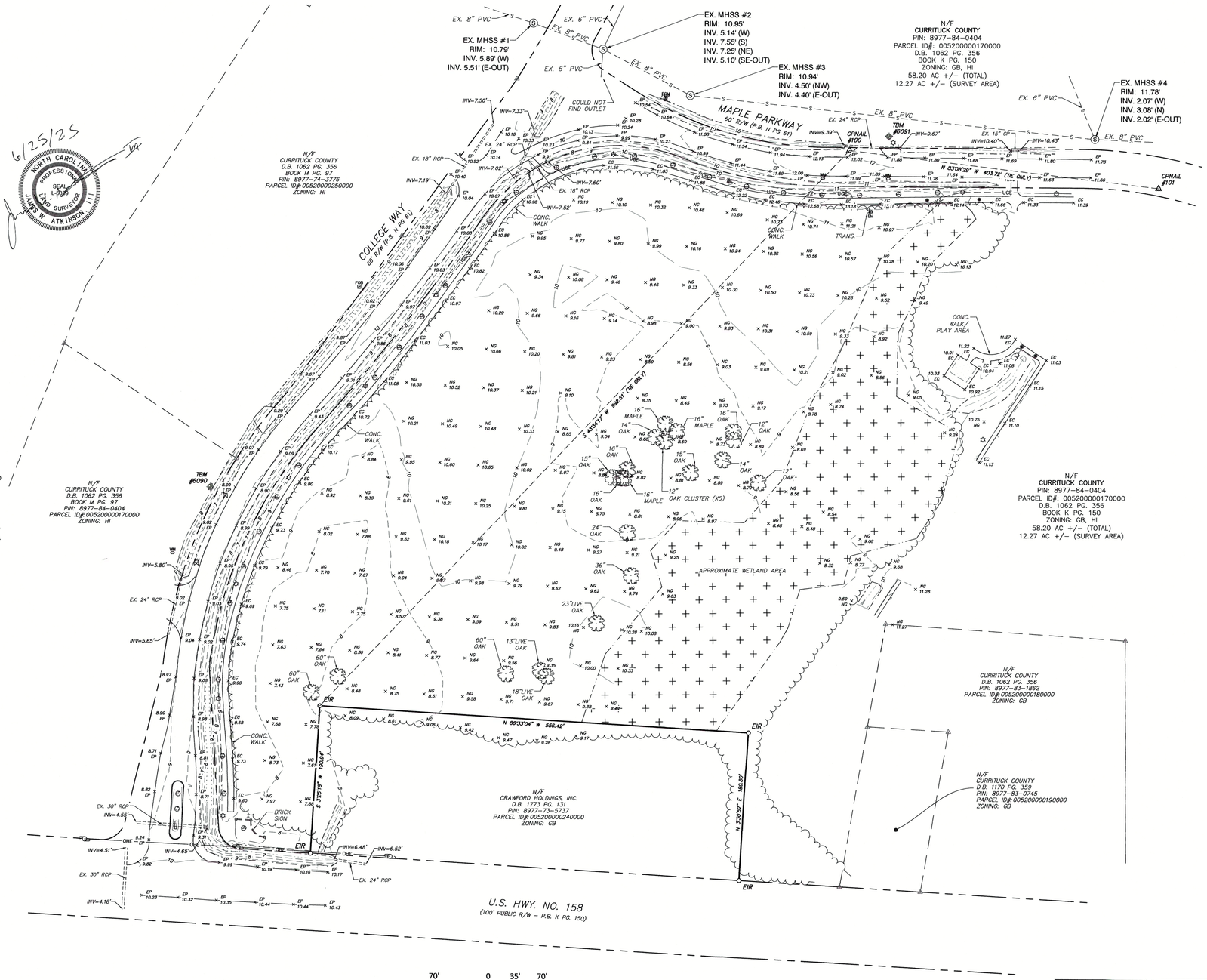
CURRENT ZONING: GB, HI

7. UTILITIES: THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN ARE COMPRISED OF ALL SUCH UTILITIES AND IN THE AREA OF SURVEY EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND UTILITIES.
6. ELEVATIONS AND CONTOURS SHOWN ARE BASED ON NAVD 88 DATUM. VERTICAL CONTROL ESTABLISHED BY MULTIPLE NCGS RTN GPS OBSERVATIONS (CLASS C).
7. INSIDE THE WOODED AREA CONTAINS MOUNDS AND DEPRESSIONS DUE TO TREES, COUNTOUR INTERVALS MAY EXCEED THE 1/2' CONFIDENCE INTERVAL IN SOME AREAS.

REFERENCES:

D.B. 1062 PG. 356
BOOK K PG. 150
D.B. 1170 PG. 359
D.B. 1773 PG. 131
BOOK M PG. 97
BOOK N PG 61





70' 0 35' 70'
SCALE: 1" = 70' ft

NORTH NAD83/2011

LEGEND

- BOUNDARY
- ADJOINER LINE
- RIGHT-OF-WAY LINE
- STORM DRAIN PIPE
- OHE — OVERHEAD ELECTRIC LINE
- UGE — UNDERGROUND ELECTRIC LINE (BY MARKINGS)
- TOP OF BANK/SLOPE
- TOE OF BANK/SLOPE
- CENTERLINE OF DITCH
- BUILDING LINE
- EDGE OF CRUSHED ROCK
- EDGE OF APPROXIMATE WETLANDS
- EDGE OF LANDSCAPING
- EDGE OF WOODS/VEGETATION
- EDGE OF CONCRETE/BACK OF CURB
- EDGE OF PAVEMENT/ASPHALT
- TIE LINE
- CONTOUR LINE (MAJOR)
- CONTOUR LINE (MINOR)
- WV WATER VALVE
- WM WATER METER
- FIRE HYDRANT
- UTILITY/POWER POLE
- EM ELECTRIC METER
- TP TELEPHONE PEDESTAL
- FOB FIBER-OPTIC BOX
- FOM FIBER-OPTIC MARKER
- ORNAMENTAL LIVE OAK
- TREE (AS SPECIFIED)
- LIGHT POLE
- EIP EXISTING IRON PIPE
- EIR EXISTING IRON ROD
- SIP SET IRON PIPE
- NG× NATURAL GROUND
- EC× EDGE OF CONCRETE
- EP× EDGE OF PAVEMENT
- TA× TOP OF ASPHALT
- TOB× TOB OF BANK/SLOPE
- TOE× TOE OF BANK/SLOPE
- CLD× CENTERLINE OF DITCH
- ASPHALT
- CONCRETE
- APPROXIMATE WETLANDS

ABBREVIATIONS

PIN	PARCEL IDENTIFICATION NUMBER
REID	REAL ESTATE IDENTIFICATION
N/F	NOW OR FORMERLY
D.B.	DEED BOOK
P.B.	PLAT BOOK
M.B.	MAP BOOK
P.G.	PAGE
INV.	INVERT
CI	CURB INLET
CB	CATCH BASIN
FES	FLARED-END SECTION
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
CLF	CHAIN-LINK FENCE
TOB	TOP OF BANK/SLOPE
TOE	TOE OF BANK/SLOPE
CLD	CENTERLINE OF DITCH
CLF	CHAIN-LINK FENCE
R/W	RIGHT-OF-WAY
S.R.	STATE ROAD
RD.	ROAD
BLVD.	BOULEVARD
EIP	EXISTING IRON PIPE
SIP	SET IRON PIPE
CONC.	CONCRETE
EX.	EXISTING

REVISIONS

TOPOGRAPHIC SURVEY FOR CURRITUCK COUNTY RECREATIONAL PARK

TOWN OF BARCO, CURRITUCK COUNTY, NORTH CAROLINA

OWNER: *CURRITUCK COUNTY*
ADDRESS: *P.O. BOX 9 CURRITUCK, NC 27929*

SURVEYED	JWA,JS,GS
DRAWN	JWA
CHECKED	JWA
APPROVED	P.M.
DATE	6/25/2025
SCALE	1" = 70'

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Engineers Planners Surveyors Landscape Architects
107 East Second Street Greenville, NC 27858 (252) 752-4135

PROJECT NO.	2022109
DRAWING NO.	W-4224
SCALE	1"=70'
DATE	6/25/2025

SHEET NO. **C1.10**

DWG. NO. W-4224 SHEET NO. 1 OF 1

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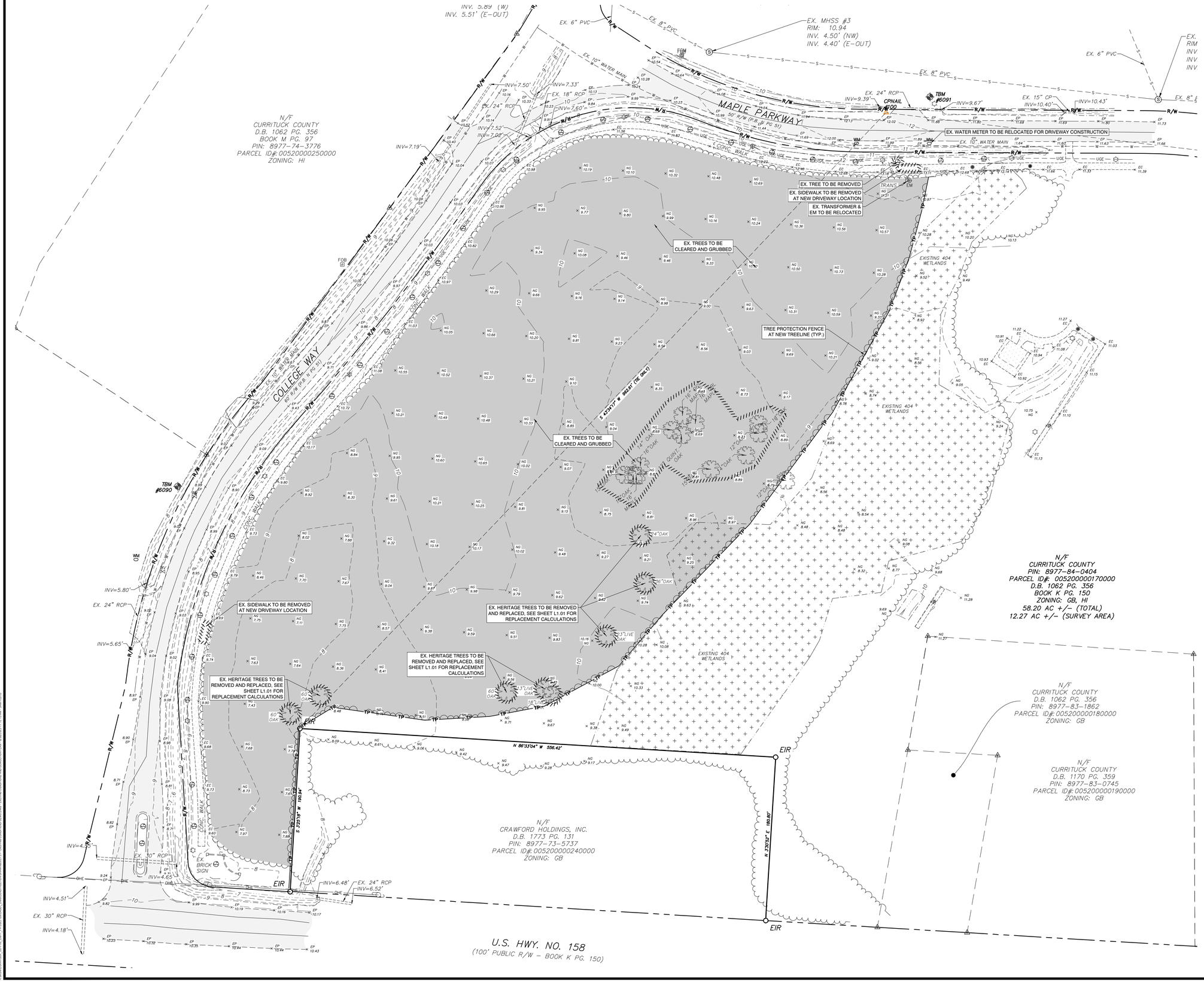
DWG. NO. W-4224



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Six Forks Place III Ste. 230
3533 Six Forks Road
Raleigh, NC 27609
919.594.1626

Preliminary NOT FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

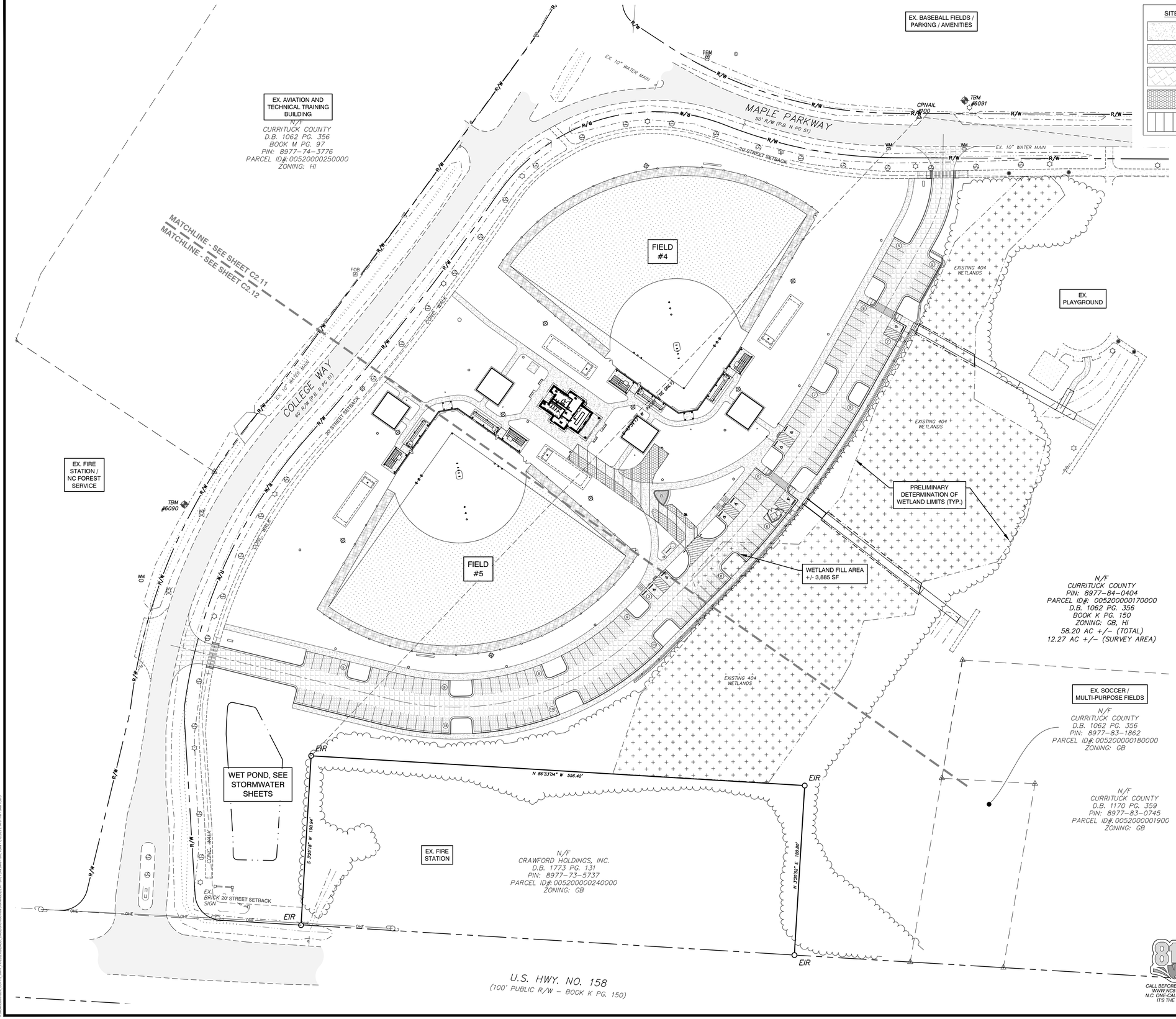
CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

EXISTING CONDITIONS AND DEMOLITION PLAN

DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C1.21

Do Not Use for Construction - PRELIMINARY



NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

SEE SHEET C2.11 FOR ENLARGED SITE PLAN NE SITE
SEE SHEET C2.12 FOR ENLARGED SITE PLAN SW SITE

SITE DATA TABLE

PROPERTY INFORMATION / SITE ADDRESSES -	PARCEL NO. - 005200000170000
	NC PIN - 8977-84-0404
	ADDRESS - SHORTCUT ROAD
	BARCO, CURRITUCK COUNTY, NORTH CAROLINA 27929
TOWNSHIP -	CRAWFORD
OWNER/DEVELOPER -	COUNTY OF CURRITUCK
	153 COURTHOUSE RD, CURRITUCK, NC 27929
SITE AREA -	EXISTING PARK TOTAL - 51.61 ACRES (PER CURRITUCK COUNTY GIS)
	SITE AREA WITHIN EX. PARK - 10.0 AC (+/- 435,600 SF)
LAND USE -	EXISTING - PARK, VACANT
ZONING -	GB
ZONING OVERLAY-	AP
PROPOSED USE -	BALL FIELDS, PARKING, ACCESSORY FACILITIES
PROPOSED AMENITIES -	PICNIC SHELTER (4)
	+/- 900 SF, 30' X 30'
	RESTROOM / CONCESSION BUILDING (1)
	+/- 1,680 SF
	250' BALL FIELDS (2)
	DUGOUTS (4)
	BLEACHERS (4)
	SCOREKEEPERS BOX (2)
	BOARDWALK 'A' (234 LF)
	BOARDWALK 'B' (219 LF)
PARKING -	REQUIRED - TO BE DETERMINED BY THE DEVELOPMENT SERVICES DIRECTOR OF CURRITUCK COUNTY, OR A DESIGNEE (PER UDO SECTION 5.1.3.E)
	PROPOSED - 134 PARKING SPACES
	MINIMUM DIMENSIONS - 10' X 18'
BICYCLE PARKING -	PROPOSED - 2 SPACES
WETLANDS -	AREA OF WETLANDS WITHIN PARK - +/- 273,329 SF (+/- 6.27 AC)
	AREA OF WETLANDS WITHIN SITE - +/- 109,511 SF (+/- 2.51 AC)
	AREA OF WETLANDS TO BE DISTURBED - +/- 3,885 SF (0.089 AC)

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NOT FOR RECORDING
NOT FOR PERMITTING
NOT FOR RECORDATION
NOT FOR CONVEYANCE
NOT FOR REGULATORY APPROVAL
PRELIMINARY PLAT
NOT FOR RECORDATION
NOT FOR CONVEYANCE
NOT FOR REGULATORY APPROVAL
NOT FOR PERMITTING
NOT FOR BIDDING
NOT FOR CONSTRUCTION
Preliminary

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

SITE PLAN

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.01

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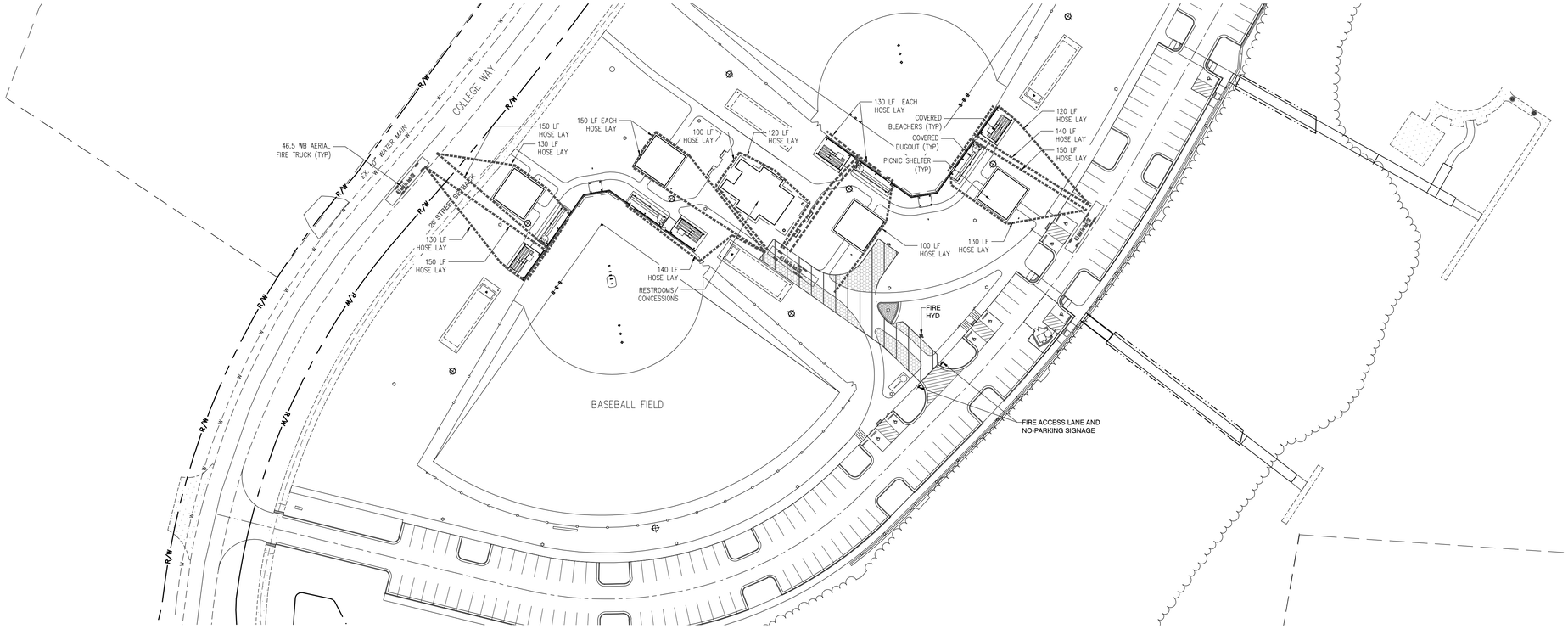
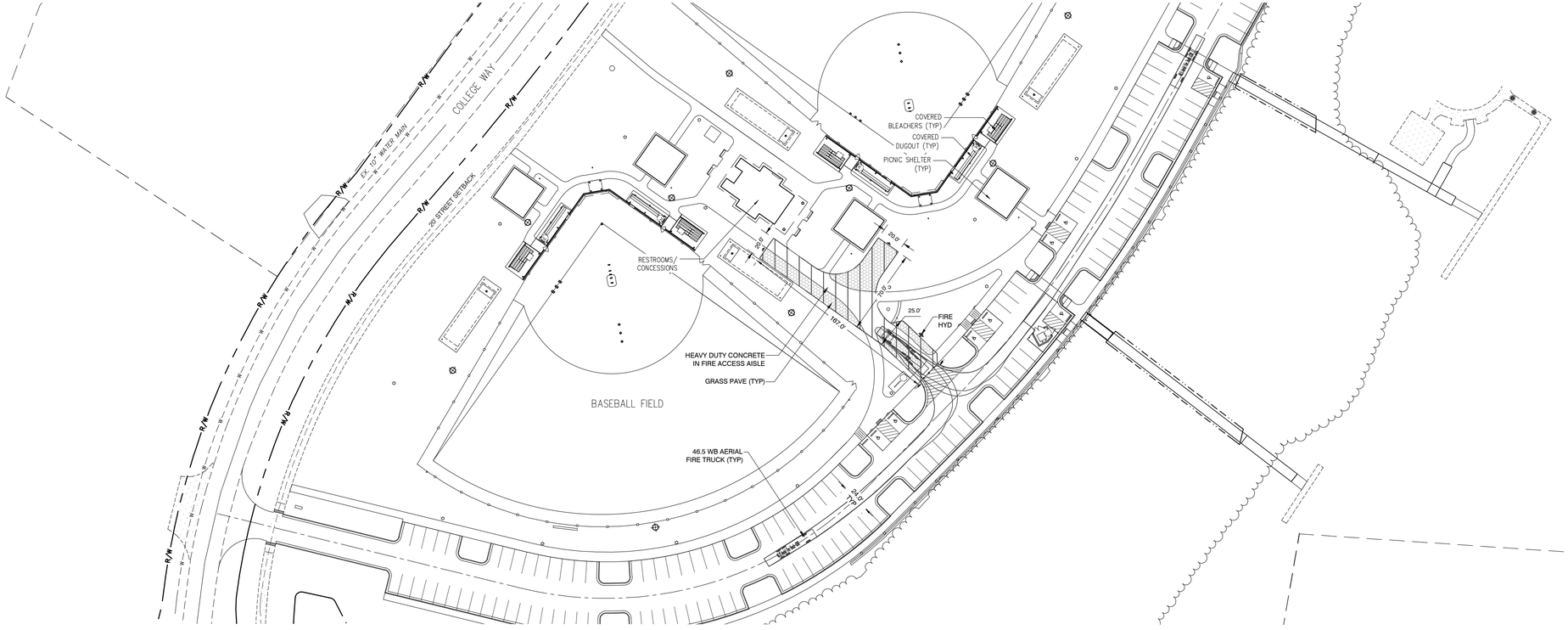


FIRE HOSE LAY DISTANCES

SCALE: 1:50

2



FIRE APPARATUS ACCESS PATH VEHICLE TRACKING

SCALE: 1:50

1

FIRE PROTECTION NOTES:

1. UNLESS NOTED, ALL RADII ON THIS PLAN ARE MEASURED AT FACE OF CURB.
2. MINIMUM INSIDE TURNING RADIUS OF 28' MUST BE MAINTAINED THROUGHOUT THE SITE FOR THE FIRE DEPARTMENT ACCESS LANE/PATH SHOWN ON THIS PLAN.
3. ALL FIRE APPARATUS ACCESS ROADS/STREETS SHALL BE HEAVY DUTY ASPHALT PAVING WITH MINIMUM 80,000 LB LOAD CAPACITY.
4. FIRE ACCESS TURNAROUND ROUTE SHALL BE HEAVY DUTY CONCRETE SIDEWALK AND GRASS PAVE WITH MINIMUM 80,000 LB LOAD CAPACITY.
5. ALL PORTIONS OF FIRST FLOOR OF ROOFED STRUCTURES SHALL BE MAXIMUM 150 LF HOSE LAY FROM FIRE TRUCK ACCESS PATHS.

FDC:

HOSE LAY:

46.5' WB AERIAL FIRE TRUCK:

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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

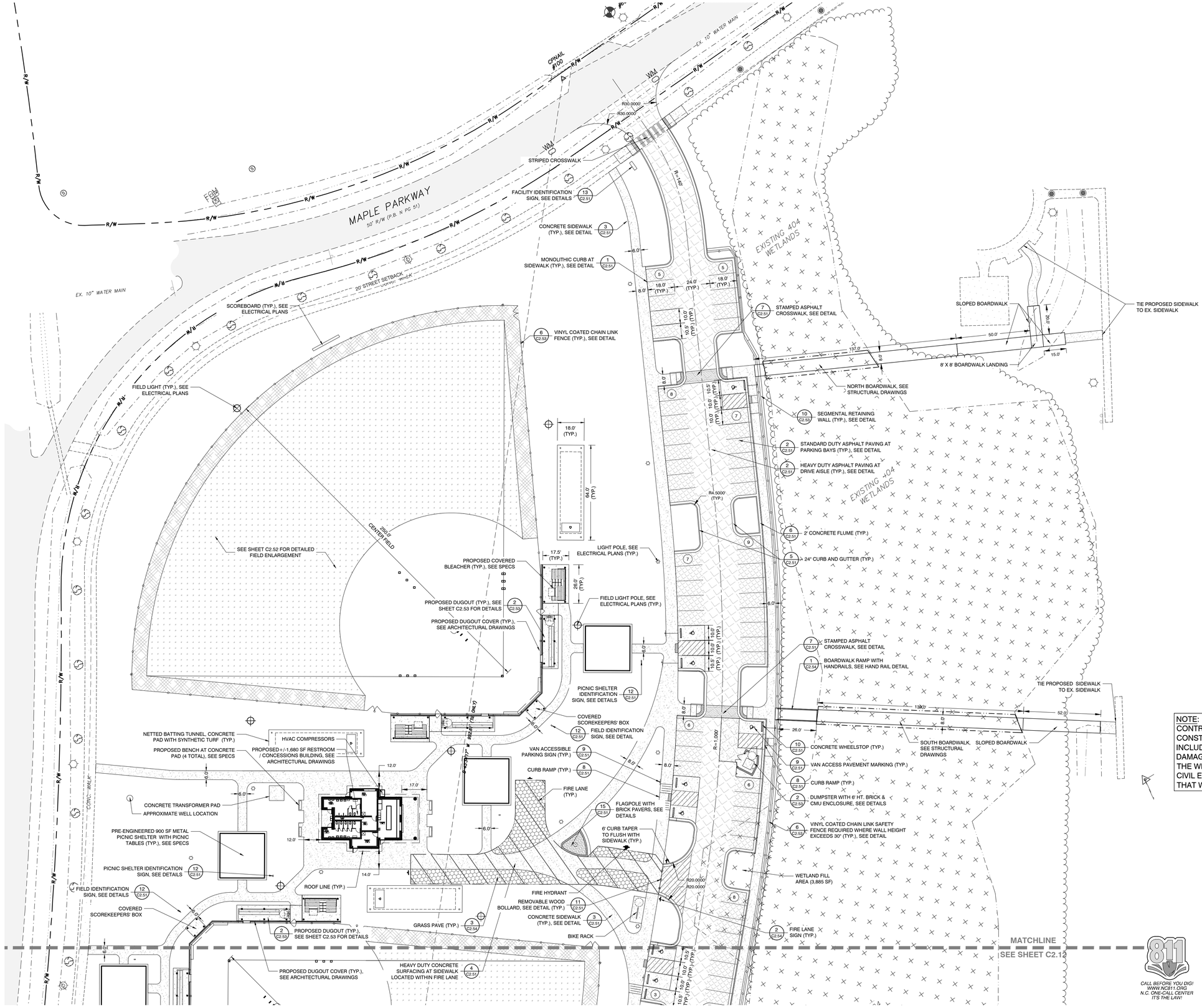
FIRE APPARATUS ACCESS PLAN

DESIGNED BY:	PRM/CK
DRAWN BY:	TAH
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN

SHEET No.

C2.02

Do Not Use for Construction - PRELIMINARY



N/F
CURRITUCK COUNTY
PIN: 8977-84-0404
PARCEL ID#: 005200000170000
D.B. 1062 PG. 356
BOOK K PG. 150
ZONING: GB, HI
58.20 AC +/- (TOTAL)
12.27 AC +/- (SURVEY AREA)

NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

SITE HATCH LEGEND
- CONCRETE
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- GRASS PAVE AT FIRE LANE
- FIRE LANE

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30' 0 15' 30'
SCALE 1 inch = 30 ft

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PRELIMINARY PLANS NOT FOR CONSTRUCTION OR RECORDATION
NC REGISTERED LANDSCAPE ARCHITECT
7757
SEAL

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA
ENLARGED SITE PLAN - NE

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN

SHEET No.
C2.11

Do Not Use for Construction - PRELIMINARY

PICNIC SHELTER IDENTIFICATION SIGN, SEE DETAILS (12 C2.51)

PROPOSED PRE-ENGINEERED METAL PICNIC SHELTER WITH PICNIC TABLES (TYP.), SEE SPECS

PROPOSED COVERED BLEACHER (TYP.), SEE SPECS

NETTED BATTING TUNNEL, CONCRETE PAD WITH SYNTHETIC TURF (TYP.)

SEE SHEET C2.52 FOR DETAILED FIELD ENLARGEMENT

DETECTABLE WARNING STRIP (TYP.)

VAN ACCESSIBLE PARKING SIGN (TYP.) (9 C2.51)

CONCRETE WHEELSTOP (TYP.) (3 C2.51)

LIGHT POLE, SEE ELECTRICAL PLANS (TYP.)

FIELD LIGHT POLE (TYP.), SEE ELECTRICAL PLANS

SCOREBOARD (TYP.), SEE ELECTRICAL PLANS

VINYL COATED CHAIN LINK FENCE (TYP.), SEE DETAIL (6 C2.53)

MONOLITHIC CURB AT SIDEWALK (TYP.), SEE DETAIL (1 C2.51)

CONCRETE SIDEWALK (TYP.), SEE DETAIL (3 C2.51)

24" CURB AND GUTTER (TYP.), SEE DETAIL (5 C2.51)

FACILITY IDENTIFICATION SIGN, SEE DETAILS (13 C2.51)

CURB RAMP (TYP.) (8 C2.51)

STRIPED CROSSWALK

VINYL COATED CHAIN LINK SAFETY FENCE REQUIRED WHERE WALL HEIGHT EXCEEDS 30" (TYP.), SEE DETAIL (6 C2.53)

SEGMENTAL RETAINING WALL (TYP.), SEE DETAIL (10 C2.53)

24" CURB AND GUTTER (TYP.) (5 C2.51)

STANDARD DUTY ASPHALT PAVING AT PARKING BAYS (TYP.), SEE DETAIL (2 C2.51)

HEAVY DUTY ASPHALT PAVING AT DRIVE AISLE (TYP.), SEE DETAIL (2 C2.51)

SEE SHEET C2.11
MATCHLINE

EXISTING 404 WETLANDS

WET POND, SEE STORMWATER SHEETS

N/F
CRAWFORD HOLDINGS, INC.
D.B. 1773 PG. 131
PIN: 8977-73-5737
PARCEL ID#: 005200000240000
ZONING: GB

N 86°33'04" W 556.42'

N 38°52'32" E 180.80'

S 22°16'49" W 183.84'

U.S. HWY. NO. 158
(100' PUBLIC R/W - BOOK K PG. 150)

COLLEGE WAY
60' R/W (P.B. N PG 51)

SITE HATCH LEGEND
- CONCRETE
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- GRASS PAVE AT FIRE LANE
- FIRE LANE

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7558
NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL

ISSUE/REVISIONS:

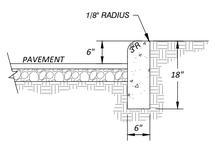
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

ENLARGED SITE PLAN - SW

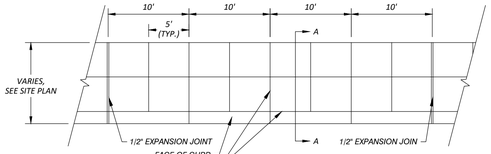
DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.12

Do Not Use for Construction - PRELIMINARY

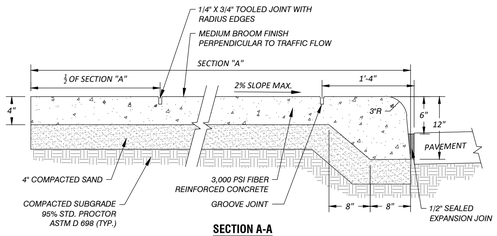


NOTES:
1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS, EXCEPT THAT A 15-FOOT SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT A 10-FOOT INTERVAL. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS AHLL BE SPACED AT 90 FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
4. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3,600 P.S.I IN 28 DATS.
5. TOP 6" OF SUBGRADE BENEATH THE CURB SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.

VERTICAL CURB DETAIL



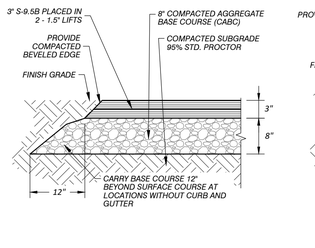
PLAN



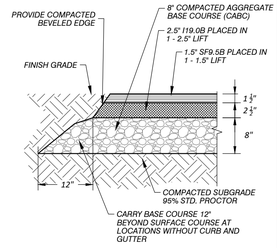
SECTION A-A

NOTES:
1) A GROOVE JOINT 1" DEEP WITH 1/3" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 40' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
2) ALL CONCRETE TO BE 3,000 PSI COMPRESSIVE STRENGTH.
3) SEE SITE PLAN FOR LOCATION.

1 VERTICAL AND MONOLITHIC SIDEWALK CURB
N.T.S.

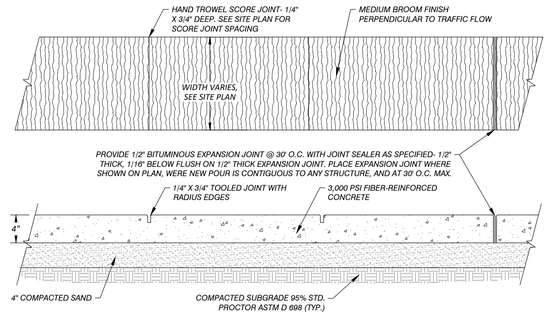


LIGHT DUTY ASPHALT PAVING SECTION

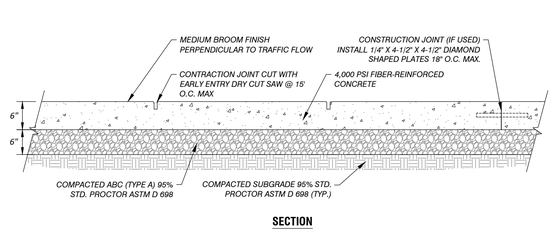


HEAVY DUTY ASPHALT PAVING SECTION

2 ASPHALT PAVEMENT
N.T.S.



3 CONCRETE SIDEWALK
N.T.S.

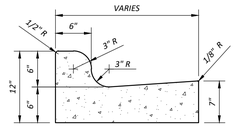


SECTION

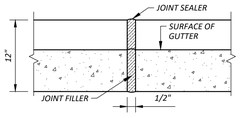
NOTES:
1. CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 330.
2. CONTRACTOR TO SUBMIT JOINTING PLAN TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OF PAVEMENT.

4 VEHICULAR CONCRETE
N.T.S.

NOTES:
1. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, EXCEPT THAT 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-½" SHALL BE OBTAINED.
3. ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT FILLER.
4. EXPANSION JOINTS SHALL BE SPACED AT 90' INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
5. ALL CURB AND GUTTERS ARE TO BE POURED WITH CLASS 'A' CONCRETE (3,000 PSI)
6. FLEXIBLE FORMS ARE TO BE USED WHEN RADII IS LESS THAN 2000'
7. MATCH WIDTH OF EXISTING CURB & GUTTER FOR ALL PATCHING.
8. REMOVE & REPLACE CURB & GUTTER TO NEAREST CONSTRUCTION JOINT.

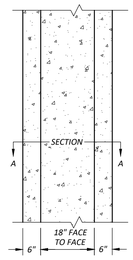


COMBINATION CURB AND GUTTER

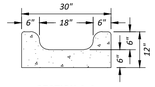


TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER

5 STANDARD CURB AND GUTTER
N.T.S.

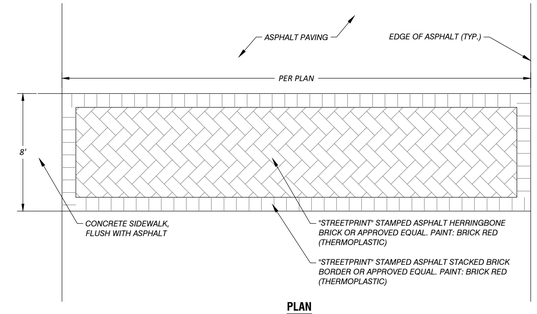


PLAN VIEW



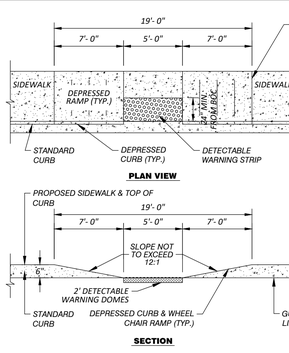
SECTION A-A

6 18 IN. CONCRETE FLUME
N.T.S.

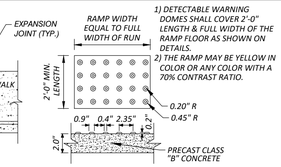


PLAN

7 STAMPED ASPHALT CROSSWALK
N.T.S.



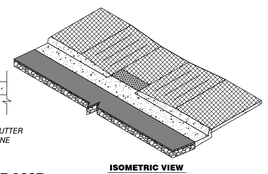
PLAN VIEW



DETECTABLE WARNING DOMES

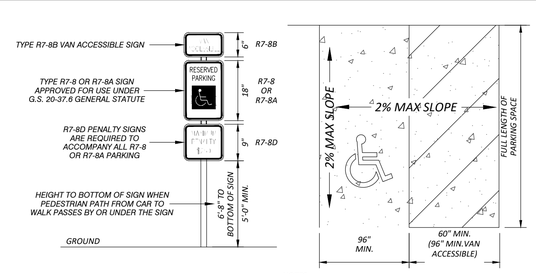
1) DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH & FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON DETAILS.
2) THE RAMP MAY BE YELLOW IN COLOR OR ANY COLOR WITH A 70% CONTRAST RATIO.

SECTION



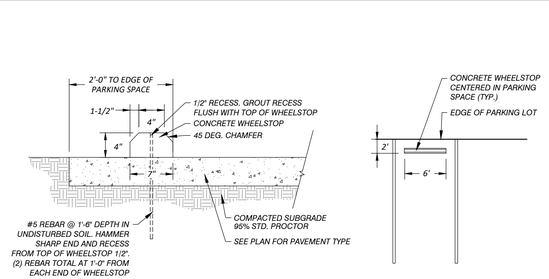
ISOMETRIC VIEW

8 STANDARD WHEEL CHAIR RAMP
N.T.S.



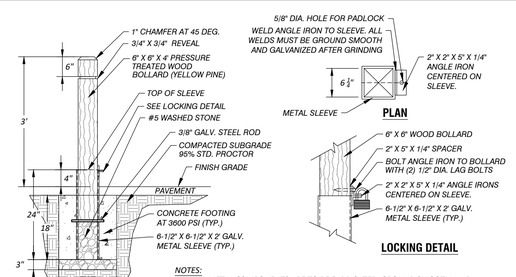
NOTES:
1. HANDICAPPED PARKING SPACE SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.
2. VAN ACCESSIBLE SPACES AND ACCESS AISLES SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 98".
3. MINIMUM DIMENSIONS OF ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL COMPLY WITH ANSI/ICC A117.1-2017.

9 HANDICAPPED PARKING AND SIGNAGE
N.T.S.



SECTION **PLAN**

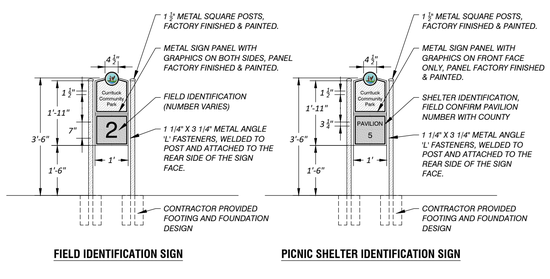
10 CONCRETE WHEEL STOP
N.T.S.



SECTION **PLAN** **LOCKING DETAIL**

NOTES:
1. ALL METAL COMPONENTS ARE TO BE FABRICATED, GROUND SMOOTH, AND HOT-DIPPED GALVANIZED.
2. ALL METAL COMPONENTS MUST HAVE A SMOOTH FINISHED, GALVANIZED SURFACE.
3. SPACER AND ANGLE IRON TO BE FLUSH, MOUNTED AT CENTER OF BOLLARD.
4. HOLES FOR PADLOCK MUST LINE UP WHEN BOLLARD IS INSERTED INTO SLEEVE.
5. ALL WOOD SHALL BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE @ NET RETENTION OF 0.40 LBS/CF. WOOD SHALL BE DRIED AFTER TREATMENT.

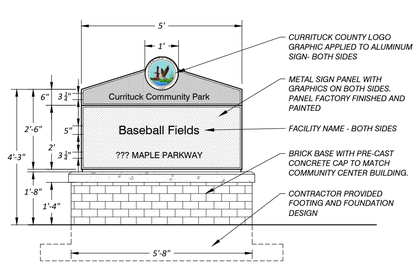
11 CONCRETE WHEEL STOP
N.T.S.



FIELD IDENTIFICATION SIGN

PICNIC SHELTER IDENTIFICATION SIGN

12 IDENTIFICATION SIGNS
N.T.S.



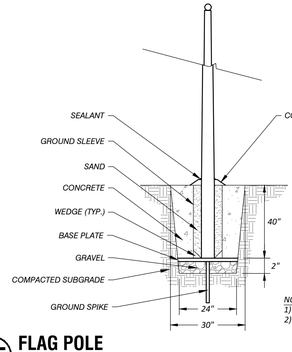
13 FACILITY IDENTIFICATION SIGN
N.T.S.

Currituck Community Park
Baseball and Softball Complex
Currituck County, North Carolina

Landscape Architect: Rivers & Associates, Inc.
Civil Engineer: Rivers & Associates, Inc.
Architect: Intrepid Architecture

General Contractor: Name Here

14 TEMPORARY CONSTRUCTION SIGN
N.T.S.



NOTES:
1) FLAG POLE HEIGHT SHALL BE 30'
2) SEE SPECIFICATIONS FOR OTHER REQUIREMENTS

15 FLAG POLE
N.T.S.

Rivers & Associates, Inc.
Since 1918
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Planners
Surveyors
Landscape Architects
NC License: F-0334
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353 E. Six Forks Road
Raleigh, NC 27609
919.594.1626

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NOT FOR CONSTRUCTION
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NOT FOR PERMITTING
NOT FOR RECORDATION
NOT FOR CONVEYANCE
NOT FOR REGULATORY APPROVAL
PURPOSES
3758 DATE OF ISSUE

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

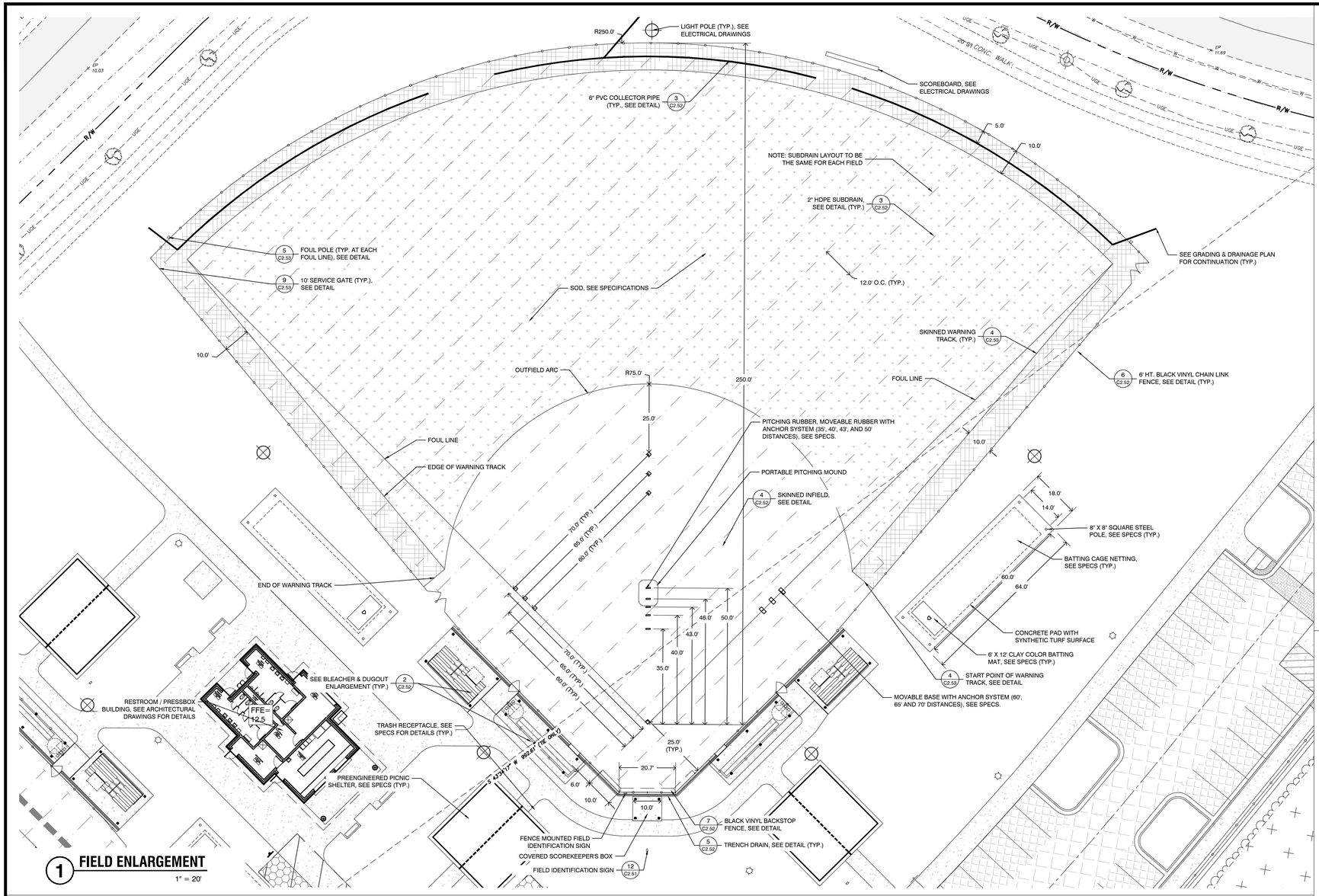
CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

SITE DETAILS

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN

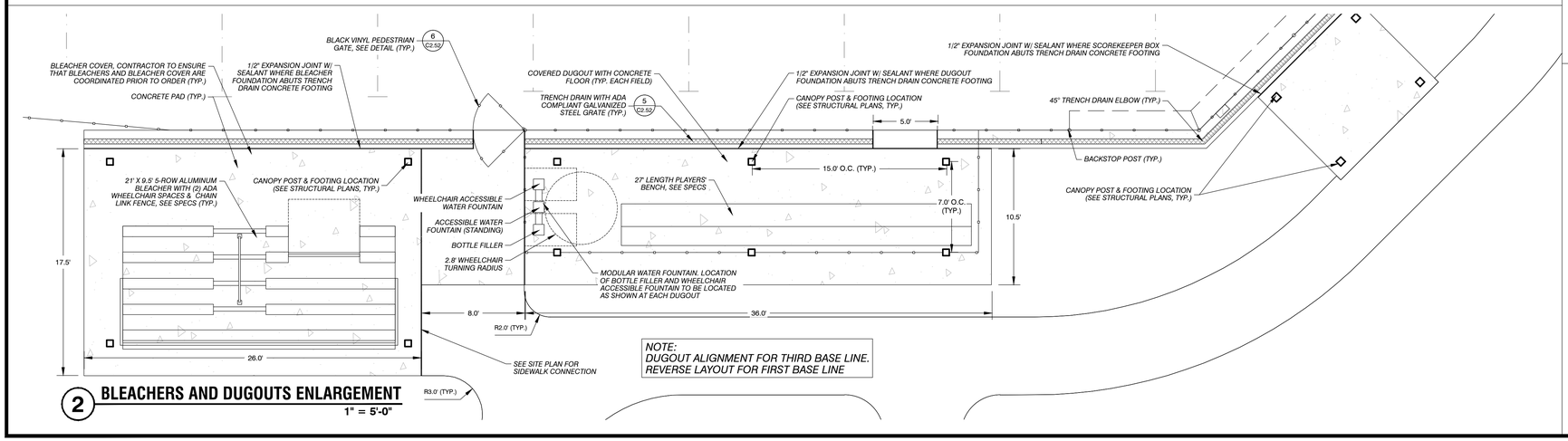
SHEET No.
C2.51

Do Not Use for Construction - PRELIMINARY



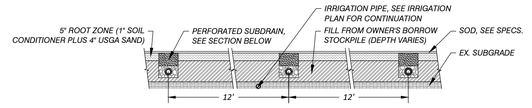
1 FIELD ENLARGEMENT

1" = 20'

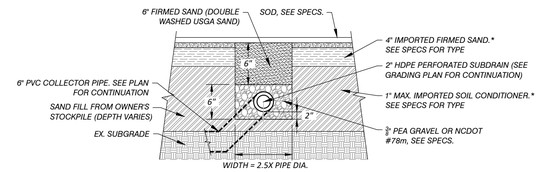


2 BLEACHERS AND DUGOUTS ENLARGEMENT

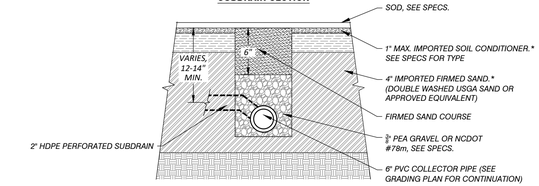
1" = 5'-0"



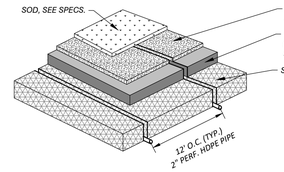
FIELD SECTION



SUBDRAIN SECTION



COLLECTOR PIPE SECTION

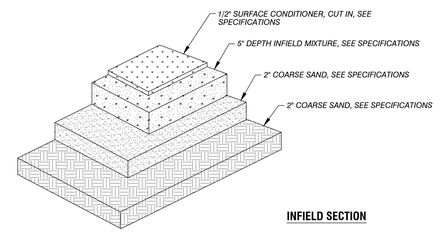


NOTES:
DETAIL ILLUSTRATES SAND AND SOIL CONDITIONER MATERIALS BEFORE MIXING PROCESS.

MATERIAL SHALL BE MIXED TO CREATE ROOT ZONE MIXTURE. SEE ATHLETIC FIELD TURF & GRASSES SPECIFICATIONS FOR MORE INFORMATION

3 FIELD SUBDRAIN DETAIL

N.T.S. N.T.S.



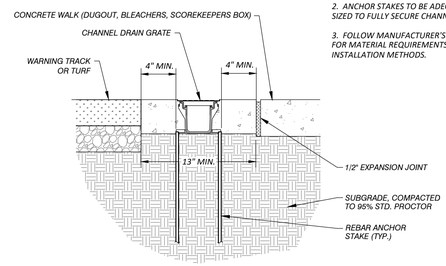
INFIELD SECTION

4 SKINNED INFIELD MIXTURE

N.T.S. N.T.S.

NOTE:

1. *THE GRATE SHOULD BE RECESSED BELOW GRADE A MINIMUM OF 1/8".*
2. *ANCHOR STAKES TO BE ADEQUATELY SIZED TO FULLY SECURE CHANNEL DRAIN.*
3. *FOLLOW MANUFACTURER'S GUIDELINES FOR MATERIAL REQUIREMENTS AND INSTALLATION METHODS.*



5 TRENCH DRAIN

N.T.S. N.T.S.
X-#

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NOT FOR PURCHASE
NOT FOR LAND TRANSFER

ISSUE/REVISIONS:

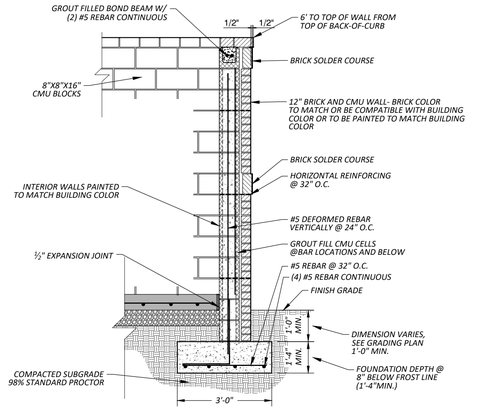
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

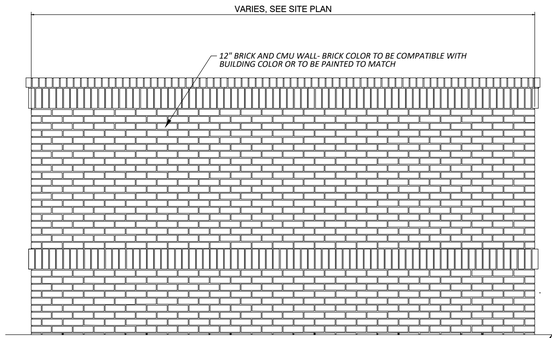
SITE DETAILS

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C2.52

Do Not Use for Construction - PRELIMINARY



SECTION



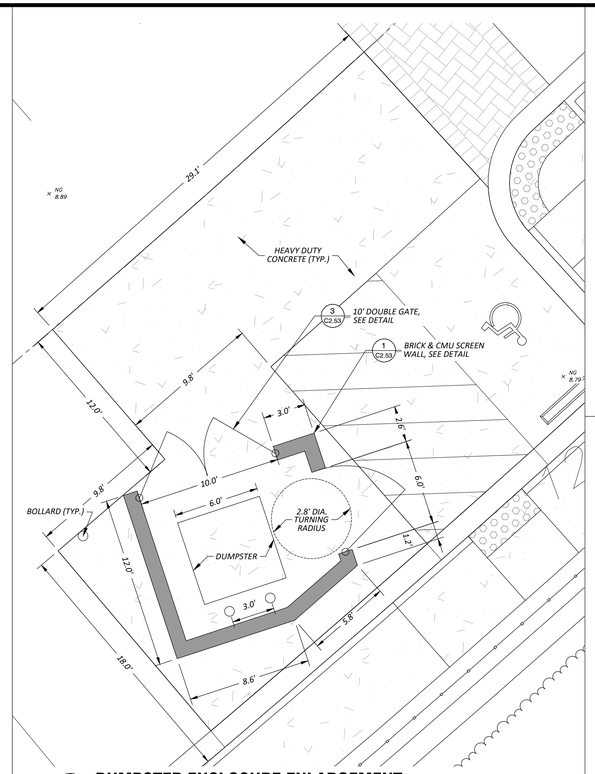
ELEVATION (SIDE)

NOTE: THIS TYPICAL WALL DETAIL IS FOR REFERENCE ONLY. THE PROFESSIONAL ENGINEER'S PE SEAL ON THESE PLANS DOES NOT INCLUDE ANY WALL DESIGN. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PREPARED AND SEALED BY LICENSED NC STRUCTURAL ENGINEER FOR APPROVAL.

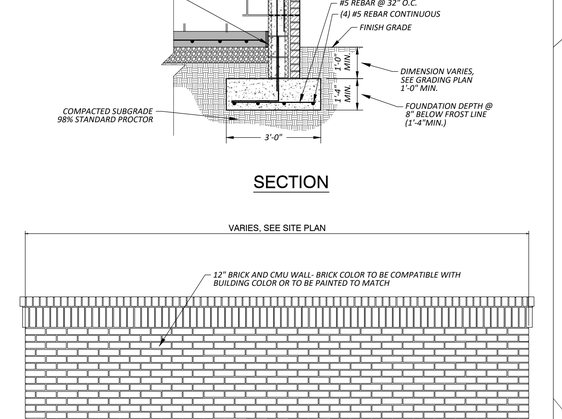
NOTES

REFER TO SITE PLAN FOR LAYOUT AND GRADING OF CONCRETE PAD. VERIFY ACTUAL DIMENSIONS IN FIELD BEFORE CONSTRUCTION.

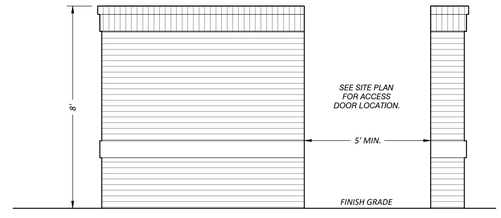
1 8 FT. HT. BRICK AND CMU SCREEN WALL
N.T.S.



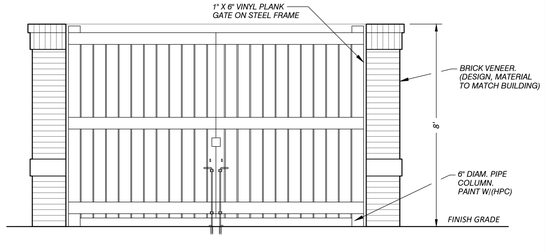
2 DUMPSTER ENCLOSURE ENLARGEMENT
1" = 5'-0"



GATE POST SECTION

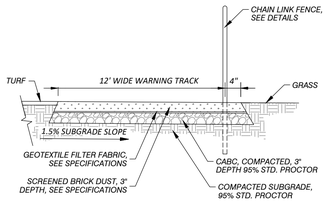


SIDE ELEVATION



FRONT ELEVATION

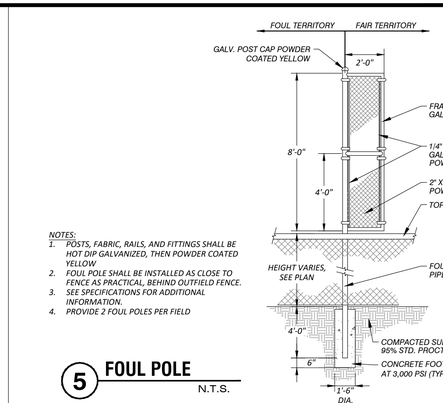
3 DUMPSTER GATE DETAILS
N.T.S.



SECTION

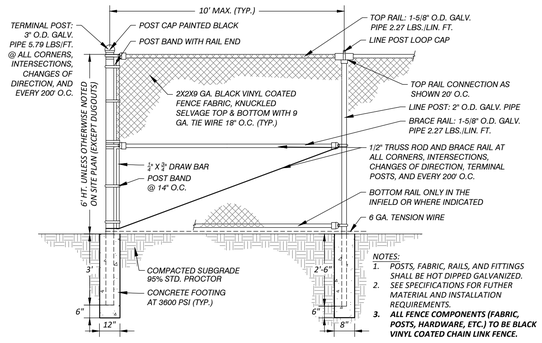
NOTES:
1. SEE SITE PLAN FOR LOCATION.
2. SEE GRADING PLAN FOR FINISHED GRADES.

4 BALLFIELD WARNING TRACK
N.T.S.



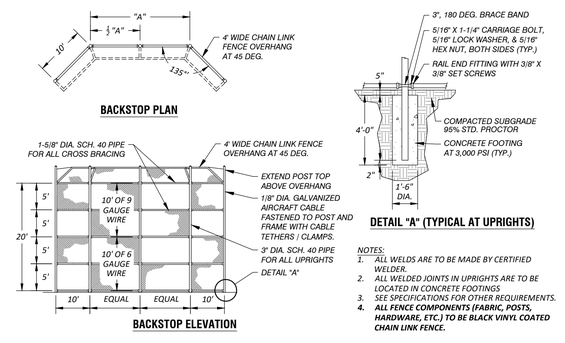
NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIP GALVANIZED, THEN POWDER COATED YELLOW
2. FOUL POLE SHALL BE INSTALLED AS CLOSE TO FENCE AS PRACTICAL, BEHIND OUTFIELD FENCE.
3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. PROVIDE 2 FOUL POLES PER FIELD

5 FOUL POLE
N.T.S.



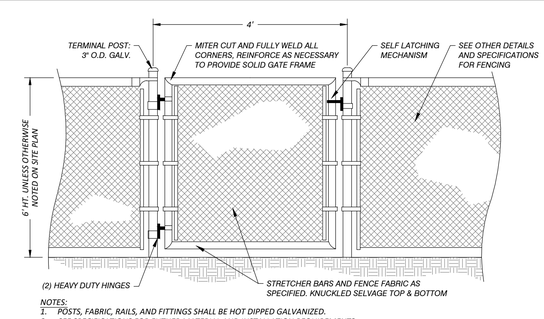
NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
2. SEE SPECIFICATIONS FOR FUTHER MATERIAL AND INSTALLATION REQUIREMENTS.
3. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

6 BLACK VINYL COATED CHAIN LINK FENCE SECTION
N.T.S.



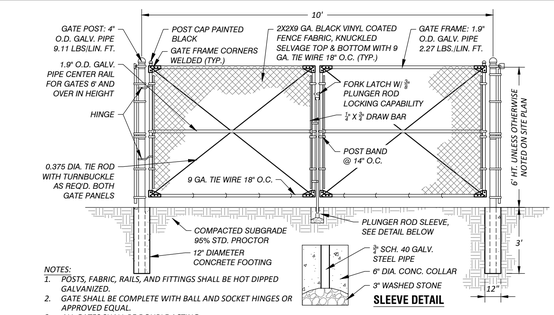
NOTES:
1. ALL WELDS ARE TO BE MADE BY CERTIFIED WELDER.
2. ALL WELDED JOINTS IN UPRIGHTS ARE TO BE LOCATED IN CONCRETE FOOTINGS
3. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.
4. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

7 BLACK VINYL COATED FENCE BACKSTOP
N.T.S.



NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
2. SEE SPECIFICATIONS FOR FUTHER MATERIAL AND INSTALLATION REQUIREMENTS.
3. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

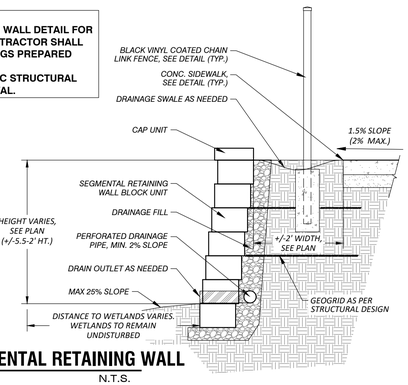
8 PEDESTRIAN GATE FOR CHAIN LINK FENCE
N.T.S.



NOTES:
1. POSTS, FABRIC, RAILS, AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
2. GATE SHALL BE COMPLETE WITH BALL AND SOCKET HINGES OR APPROVED EQUAL.
3. ALL GATES SHALL BE DOUBLE ACTING.
4. SEE SPECIFICATIONS FOR FURTHER MATERIAL AND INSTALLATION REQUIREMENTS.
5. **ALL FENCE COMPONENTS (FABRIC, POSTS, HARDWARE, ETC.) TO BE BLACK VINYL COATED CHAIN LINK FENCE.**

9 VINYL COATED SERVICE GATE FOR CHAIN LINK FENCE
N.T.S.

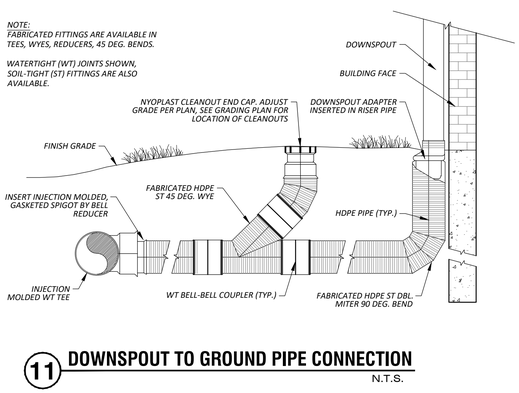
NOTE:
SEGMENTAL RETAINING WALL DETAIL FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PREPARED AND SEALED BY LICENSED NC STRUCTURAL ENGINEER FOR APPROVAL.



10 SEGMENTAL RETAINING WALL
N.T.S.

NOTE:
FABRICATED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45 DEG. BENDS.

WATERTIGHT (WT) JOINTS SHOWN, SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.



11 DOWNSPOUT TO GROUND PIPE CONNECTION
N.T.S.

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353 Six Forks Road
Raleigh, NC 27609
919.594.1626
Engineers
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7/1/25

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

SITE DETAILS

DESIGNED BY:	PRM, SBF
DRAWN BY:	SBF
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PROJECT No.	2022109
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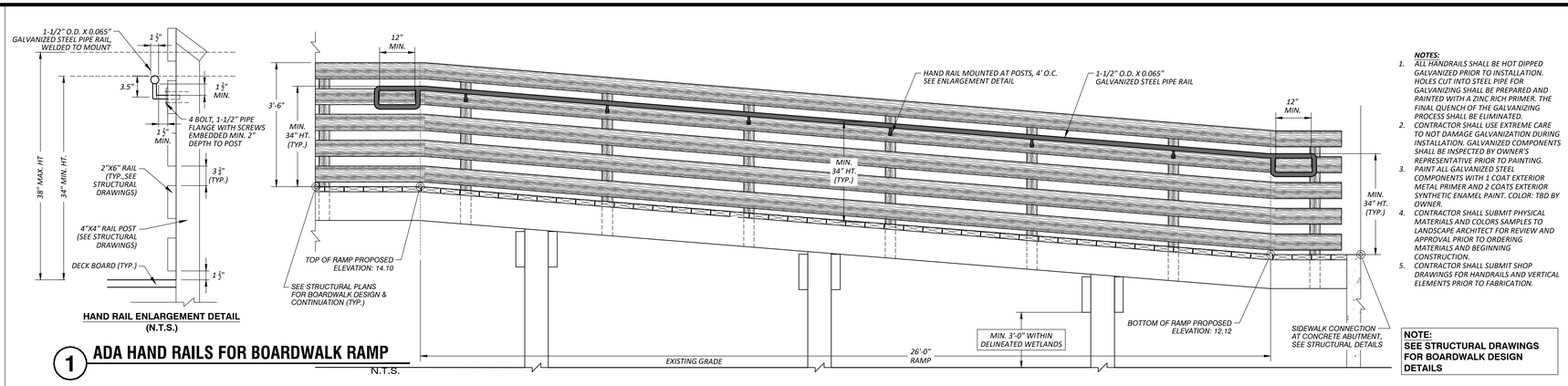
SCALE:	AS SHOWN
SHEET No.	C2.53

Do Not Use for Construction - PRELIMINARY

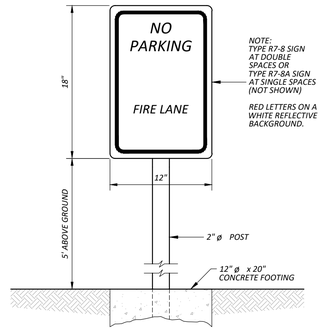


NOTES:

1. ALL HANDRAILS SHALL BE HOT DIPPED GALVANIZED PRIOR TO INSTALLATION. HOLES CUT INTO STEEL PIPE FOR GALVANIZING SHALL BE PREPARED AND PAINTED WITH A ZINC RICH PRIMER. THE FINAL QUENCH OF THE GALVANIZING PROCESS SHALL BE ELIMINATED.
2. CONTRACTOR SHALL USE EXTREME CARE TO NOT DAMAGE GALVANIZATION DURING INSTALLATION. GALVANIZED COMPONENTS SHALL BE INSPECTED BY OWNER'S REPRESENTATIVE PRIOR TO PAINTING.
3. PAINT ALL GALVANIZED STEEL COMPONENTS WITH 1 COAT EXTERIOR METAL PRIMER AND 2 COATS EXTERIOR SYNTHETIC ENAMEL PAINT. COLOR: TBD BY OWNER.
4. CONTRACTOR SHALL SUBMIT PHYSICAL MATERIALS AND COLORS SAMPLES TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR HANDRAILS AND VERTICAL ELEMENTS PRIOR TO FABRICATION.

NOTE:
SEE STRUCTURAL DRAWINGS FOR BOARDWALK DESIGN DETAILS

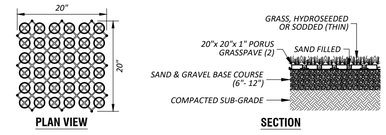
1 ADA HAND RAILS FOR BOARDWALK RAMP
N.T.S.



NOTE:
TYPE R7-8 SIGN AT DOUBLE SPACES OR TYPE R7-8A SIGN AT SINGLE SPACES (NOT SHOWN)

RED LETTERS ON A WHITE REFLECTIVE BACKGROUND.

2 FIRE LANE SIGN
N.T.S.



3 FIRE LANE GRASS PAVE
N.T.S.

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NOT FOR REGULATORY APPROVAL
NOT FOR PURCHASING
NOT FOR LAND TRANSFER
NOT FOR RECORDATION
NOT FOR SALES
NOT FOR RECORDATION
NOT FOR RECORDATION
NOT FOR RECORDATION

INV. 5.89' (W)
INV. 5.51' (E-OUT)

EX. 6" PVC

EX. 8" PVC

EX. MHSS #3
RIM: 10.94
INV. 4.50' (NW)
INV. 4.40' (E-OUT)

INV. IN=4.60 (S-IN)

EX. 6" PVC

SS MH #100
TOP=11.00
INV=5.29

SS MH #101
TOP=11.00
INV=6.00

BORE & JACK SANITARY SEWER PIPE INSTALLATION ACROSS THE ROAD. USE 16" STEEL CASING PIPE, EXTEND TO A MINIMUM OF 10' FROM EXISTING WATER LINE ON THE SOUTH SIDE

EX. 10" WATER MAIN

FIRM

MAPLE PARKWAY
50' R/W (D.B. N PG 51)

CPNAIL
#6100

TBM
#6091

100 LF 8" PVC SS @ 0.40% SLOPE

148 LF 8" PVC SS @ 0.42% SLOPE

20' STREET SETBACK

EX. 10" WATER MAIN

WM

TAP &10X6 TEE

6" GATE VALVE

22.5° BEND

N/F
CURRITUCK COUNTY
D.B. 1062 PG. 356
BOOK M PG. 97
PIN: 8977-74-3776
PARCEL ID#: 005200000250000
ZONING: HI

SS MH #102
TOP=11.20
INV=6.80

144 LF 8" PVC SS @ 0.40% SLOPE

SS MH #103
TOP=12.05 (+/-, FLUSH WITH WALKWAY)
INV.=7.22'

56 LF 4" PVC @ 2% SLOPE

160 LF 8" DIP SS @ 0.40% SLOPE

EXISTING 404 WETLANDS

6" C900 PVC WATERLINE

1-1/2" PVC WATERLINE (TYP.)

WATER FOUNTAIN

3/4" PVC WATERLINE

SS CLEANOUT

3/4" BALL VALVE IN METER VAULT (TYP.)

WATER FOUNTAIN

3/4" BALL VALVE IN METER VAULT (TYP.)

COLLEGE WAY
60' R/W (D.B. N PG 51)

20' STREET SETBACK

EX. 6" WATER MAIN

CONC. WALK

TBM
#6090

1-1/2" RPZ IN HOT BOX (SEE DETAIL)

1-1/2" TYPE -K DOMESTIC WATER SERVICE METER (BY CURRITUCK CO. PUBLIC UTILITY DEPT.)

1-1/2" TAP

FIRE HYDRANT ASSEMBLY

N/F
CURRITUCK COUNTY
PIN: 8977-84-0404
PARCEL ID#: 005200000170000
D.B. 1062 PG. 356
BOOK K PG. 150
ZONING: GB, HI
58.20 AC +/- (TOTAL)
12.27 AC +/- (SURVEY AREA)

EXISTING 404 WETLANDS

N/F
CURRITUCK COUNTY
D.B. 1062 PG. 356
PIN: 8977-83-1862
PARCEL ID#: 005200000180000
ZONING: GB

N/F
CURRITUCK COUNTY
D.B. 1170 PG. 359
PIN: 8977-83-0745
PARCEL ID#: 005200000190C
ZONING: GB

EIR

N 86°33'04" W 556.42'

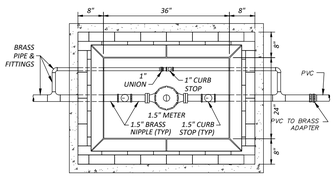
S 3°25'16" W 180.84'

N 3°26'32" E 180.86'

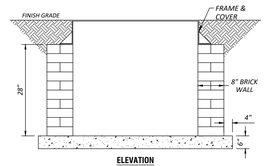
N/F
CRAWFORD HOLDINGS, INC.
D.B. 1773 PG. 131
PIN: 8977-73-5737
PARCEL ID#: 005200000240000
ZONING: GB

EX. BRICK 20' STREET SETBACK SIGN

U.S. HWY. NO. 158
(100' PUBLIC R/W - BOOK K PG. 150)

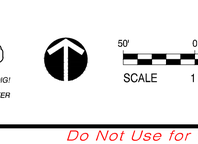


PLAN

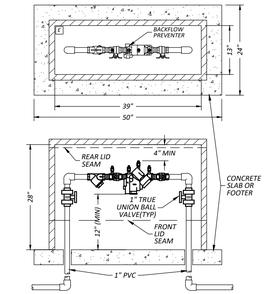


ELEVATION

1 1.5" METER & VAULT
N.T.S.



NOTES :
1) ALL DIMENSIONS ARE APPROXIMATED IN INCHES.
2) RECOMMENDED SLAB SIZE SHALL BE 50"L x 24"W x 4" MINIMUM THICKNESS.
3) "E" INDICATES THE ELECTRICAL RECEPTACLE. IT SHALL BE MOUNTED A MINIMUM OF 18" ABOVE THE SLAB.
4) HEAT IS PROVIDED BY A 90W, 120V, SINGLE PHASE HEAT TRACE CABLE (18'-0" LENGTH).
5) USE SIMILAR ENCLOSURE FOR IRRIGATION BOOSTER PUMP.



2 RPZ & ENCLOSURE
N.T.S.
WATR-27

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SCALE 1 inch = 50 ft

Rivers & ASSOCIATES, INC.
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NC License: F-0334
Six Forks Place III Ste. 230
353 E. Six Forks Road
Raleigh, NC 27609
919.594.1626

NORTH CAROLINA PROFESSIONAL SEAL 032101 ENGINEER BRIAN RIVERS
Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

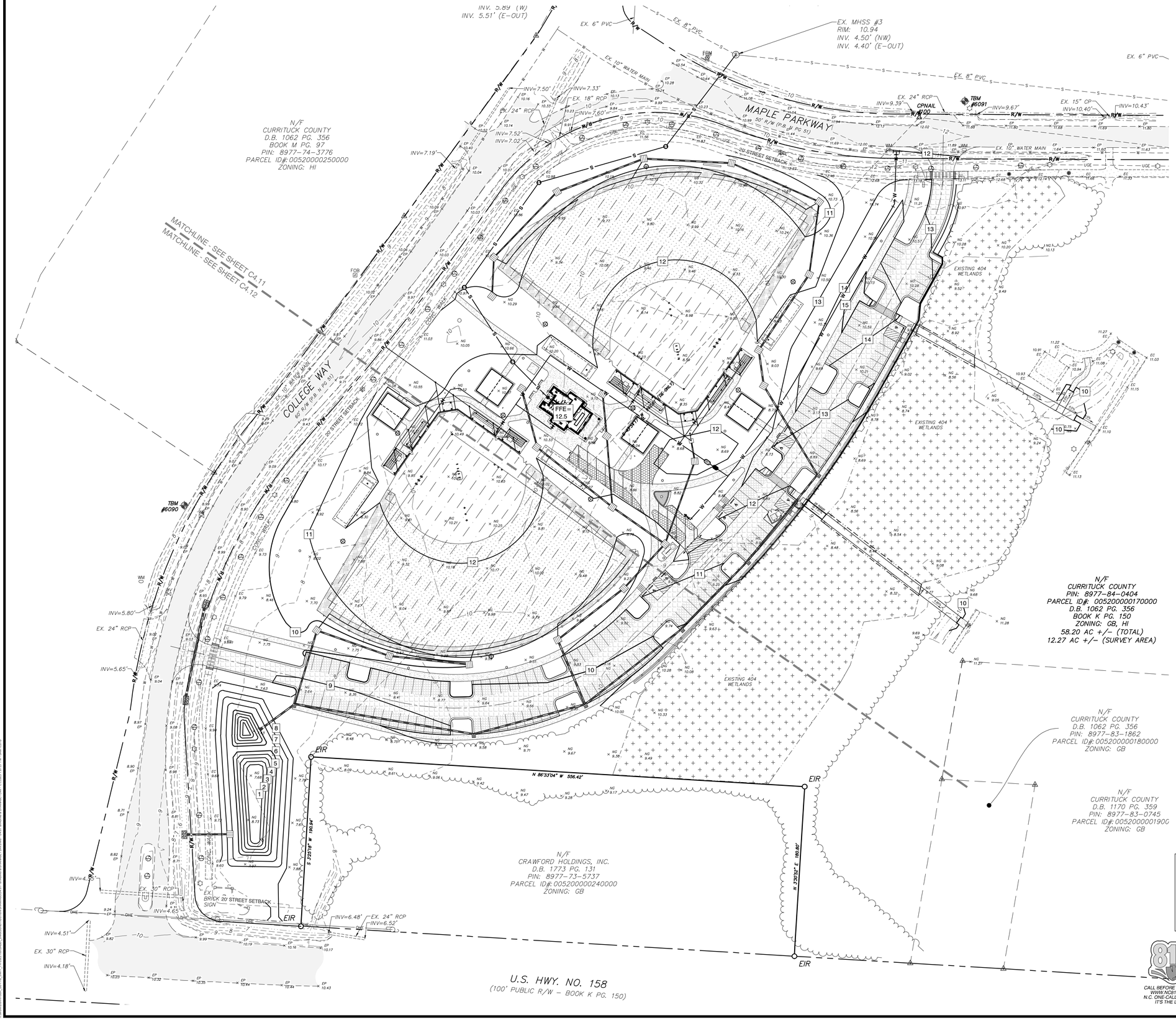
CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

UTILITIES PLAN

DESIGNED BY:	BR
DRAWN BY:	TAH, SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C3.01

Do Not Use for Construction - PRELIMINARY

S:\RIVERS\PROJECTS\2022109\CAD\PLANS\UTILITIES\2022109_UTILITIES.DWG 7/1/2025 3:58:38 PM JOHN DOE



NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

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SCALE 1 inch = 50 ft (50' 0 25' 50')

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NORTH CAROLINA PROFESSIONAL SEAL 032191 ENGINEER BRIAN RIVERS

Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

GRADING & DRAINAGE PLAN

DESIGNED BY:	BR, SBF
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.01

Do Not Use for Construction - PRELIMINARY

NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

STRUCTURE TABLE	
NAME	DETAILS
CB-301	RIM= 8.90' INV= 5.13' (E) INV= 5.13' (N) INV= 5.13' (SW-OUT)
CB-302	RIM= 9.38' INV= 5.74' (E) INV= 5.74' (W-OUT)
CB-303	RIM= 9.82' INV= 6.13' (NE) INV= 6.13' (NW) INV= 6.13' (W-OUT)
CB-304	RIM= 10.40' INV= 6.54' (NE) INV= 6.54' (SW-OUT)
CB-305	RIM= 11.29' INV= 6.86' (NE) INV= 6.86' (SW-OUT)
CB-306	RIM= 12.35' INV= 7.25' (NW) INV= 7.24' (SW-OUT)
DI-2	RIM= 9.00' INV= 5.41' (E) INV= 5.41' (S-OUT)
DI-3	RIM= 9.25' INV= 5.72' (E) INV= 5.71' (W-OUT)
DI-4	RIM= 10.00' INV= 5.99' (W-OUT)
DI-5	RIM= 10.00' INV= 6.37' (NE) INV= 6.37' (SE-OUT)
DI-6	RIM= 10.25' INV= 6.65' (NE) INV= 6.65' (SW-OUT)
DI-7	RIM= 10.62' INV= 7.44' (N) INV= 6.85' (NW) INV= 6.85' (SW-OUT)
DI-8	RIM= 11.06' INV= 7.74' (N) INV= 7.74' (S-OUT)
DI-10	RIM= 10.47' INV= 7.07' (N) INV= 7.07' (NW) INV= 7.07' (SE-OUT)
DI-11	RIM= 12.25' INV= 7.31' (N) INV= 7.31' (S-OUT)
DI-12	RIM= 12.25' INV= 7.45' (S-OUT)
DI-13	RIM= 11.78' INV= 7.38' (N) INV= 7.38' (SE-OUT)
DI-14	RIM= 12.05' INV= 7.57' (S-OUT)
DI-16	RIM= 11.10' INV= 9.63' (N-OUT)
DI-17	RIM= 10.78' INV= 9.51' (S) INV= 9.51' (NE-OUT)

STRUCTURE TABLE	
NAME	DETAILS
DI-18	RIM= 10.63' INV= 9.21' (SW) INV= 9.21' (E-OUT)
DI-19	RIM= 10.50' INV= 8.91' (W) INV= 8.91' (E-OUT)
DI-20	RIM= 12.30' INV= 7.60' (N) INV= 7.60' (SE-OUT)
DI-21	RIM= 12.20' INV= 7.76' (NE) INV= 7.72' (S-OUT)
DI-22	RIM= 11.85' INV= 8.07' (N) INV= 8.07' (SW-OUT)
DI-23	RIM= 10.50' INV= 8.31' (NW) INV= 8.31' (S-OUT)
DI-24	RIM= 10.70' INV= 8.63' (W) INV= 8.62' (SE-OUT)
FES-1	RIM= 7.79' INV= 6.00' (S-OUT)
FES-2	RIM= 7.77' INV= 5.98' (N)
FES-100	RIM= 7.24' INV= 5.10' (E)
FES-200	RIM= 6.62' INV= 5.00' (NE)
JB-9	RIM= 9.43' INV= 7.90' (S-OUT)
OCS	RIM= 7.76' INV= 5.20' (W-OUT)

PIPE TABLE				
PIPE NAME	SIZE	MATERIAL	LENGTH	SLOPE
P-01-200	18"	RCP	42.41'	0.30%
P-2-01	12"	RCP	86.55'	0.32%
P-3-2	12"	RCP	86.37'	0.35%
P-4-3	12"	RCP	90.25'	0.30%
P-5-03	15"	RCP	78.90'	0.30%
P-6-5	15"	RCP	94.31'	0.30%
P-7-6	15"	RCP	67.97'	0.30%
P-8-7	12"	RCP	98.91'	0.30%
P-9-8	12"	RCP	23.30'	0.70%
P-10-7	15"	RCP	72.34'	0.30%
P-11-10	12"	RCP	80.22'	0.30%
P-12-11	12"	RCP	47.53'	0.30%
P-13-10	15"	RCP	104.59'	0.30%
P-14-13	12"	RCP	62.91'	0.30%
P-17-16	12"	RCP	38.80'	0.30%
P-18-17	12"	RCP	98.49'	0.30%
P-19-18	12"	RCP	100.86'	0.30%
P-20-06	12"	RCP	116.88'	0.30%
P-21-20	12"	RCP	40.37'	0.30%
P-22-21	12"	RCP	102.36'	0.30%

PIPE TABLE				
PIPE NAME	SIZE	MATERIAL	LENGTH	SLOPE
P-23-22	12"	RCP	82.46'	0.30%
P-24-23	12"	RCP	103.68'	0.30%
P-57	18"	RCP	90.00'	0.02%
P-58	12"	RCP	95.32'	0.30%
P-302-301	18"	RCP	204.25'	0.30%
P-303-302	18"	RCP	129.54'	0.30%
P-304-303	15"	RCP	137.58'	0.30%
P-305-304	15"	RCP	106.06'	0.30%
P-306-305	15"	RCP	125.64'	0.30%
P-OCS-100	15"	RCP	42.11'	0.24%

SPOT ELEVATION KEY

BACK OF CURB SPOT ELEVATION	13.55 BC
TOP OF CONCRETE SPOT ELEVATION	12.45 TC
TOP OF ASPHALT SPOT ELEVATION	11.30 TA
BOTTOM OF RAMP SPOT ELEVATION	11.56 BR
TOP OF RAMP SPOT ELEVATION	13.50 TR
FINISH GRADE SPOT ELEVATION	12.24 FG
TOP OF BOARDWALK SPOT ELEVATION	14.00 TBW
TOP OF BANK SPOT ELEVATION	11.09 TB
HIGH POINT SPOT ELEVATION	10.50 HP

MATCHLINE
SEE SHEET C4.12

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SCALE 1 inch = 30 ft (30' 0 15' 30')

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Preliminary
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL SEAL 032109 ENGINEER JOSEPH B. RIVERS

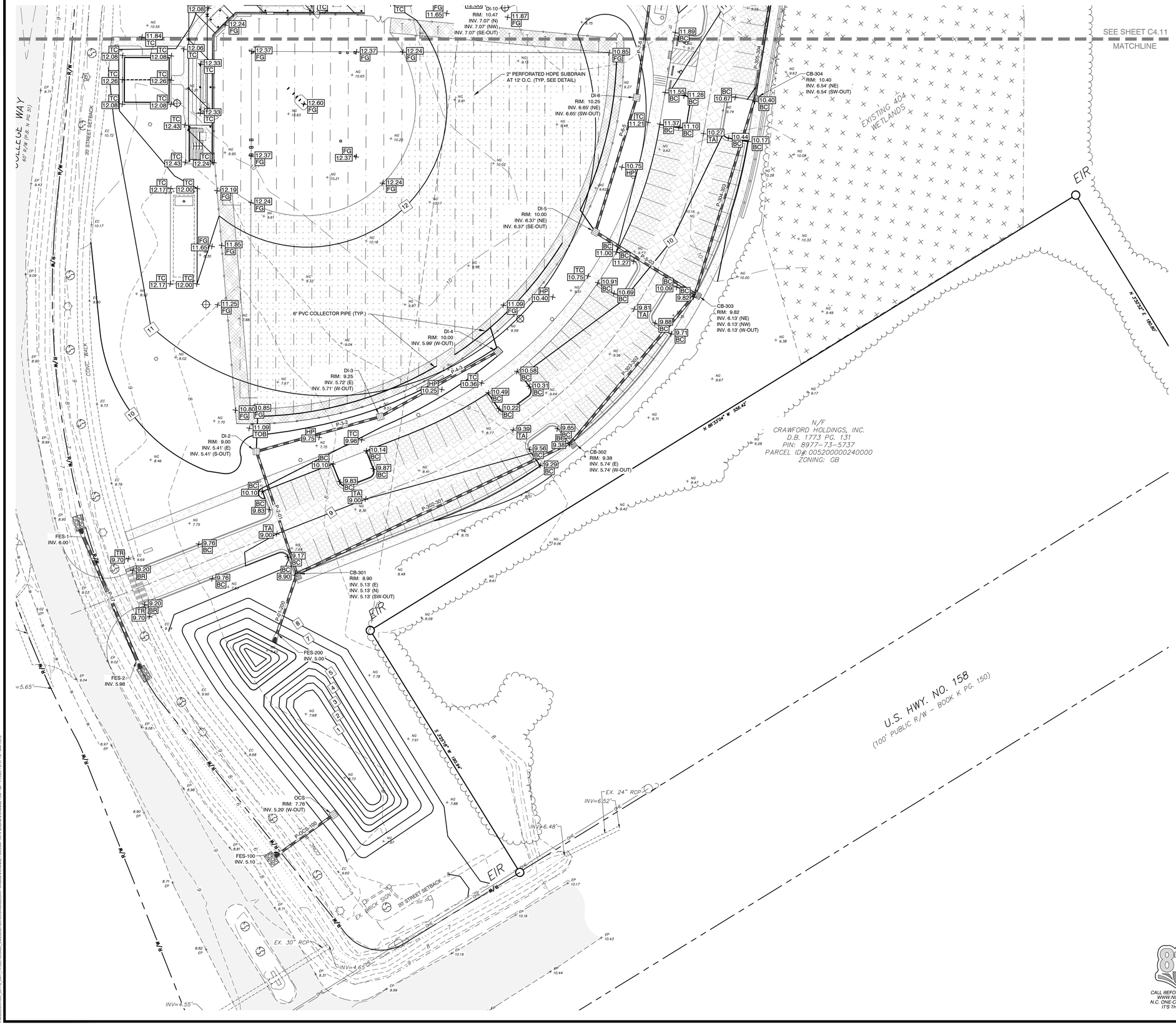
ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA
GRADING & DRAINAGE PLAN - NE

DESIGNED BY:	BR, SBF
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.11

Do Not Use for Construction - PRELIMINARY



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SPOT ELEVATION KEY

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TOP OF CONCRETE SPOT ELEVATION	X 12.45 TC
TOP OF ASPHALT SPOT ELEVATION	X 11.30 TA
BOTTOM OF RAMP SPOT ELEVATION	X 11.56 BR
TOP OF RAMP SPOT ELEVATION	X 13.50 TR
FINISH GRADE SPOT ELEVATION	X 12.24 FG
TOP OF BOARDWALK SPOT ELEVATION	X 14.00 TBW
TOP OF BANK SPOT ELEVATION	X 11.09 TB
HIGH POINT SPOT ELEVATION	X 10.50 HP

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NORTH CAROLINA PROFESSIONAL SEAL 032161 ENGINEER BRIAN RIVERS

Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

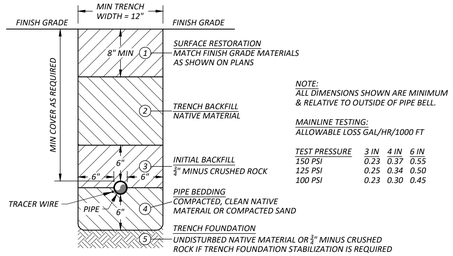
NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

GRADING & DRAINAGE PLAN - SW

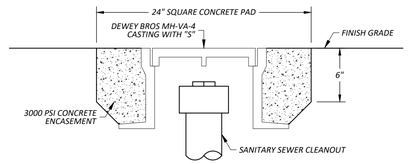
DESIGNED BY:	BR, SBF
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.12

Do Not Use for Construction - PRELIMINARY



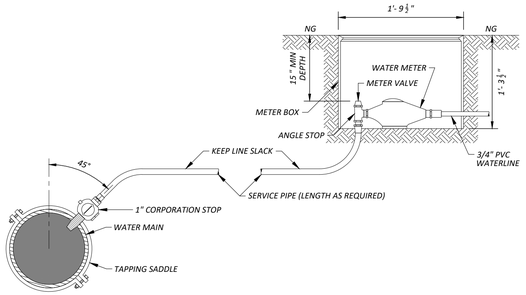
1 TYPICAL SEWER TRENCH

N.T.S.
SSWR-24



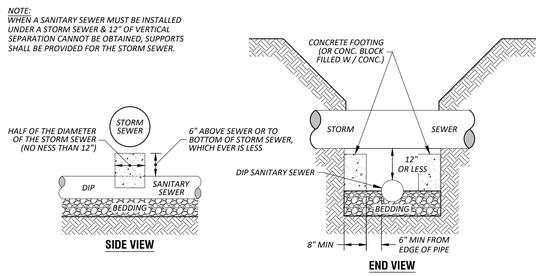
2 SANITARY SEWER CLEANOUT

N.T.S.
SSWR-18



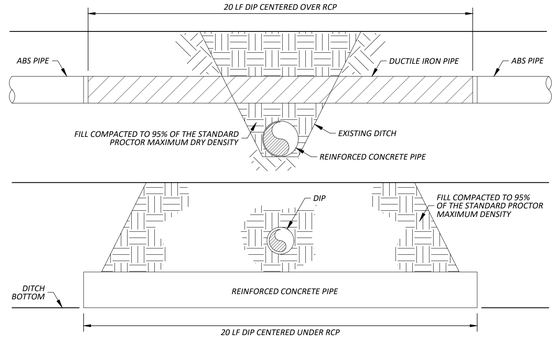
3 TYPICAL 3/4 " WATER SERVICE CONNECTION

N.T.S.
WATR-12



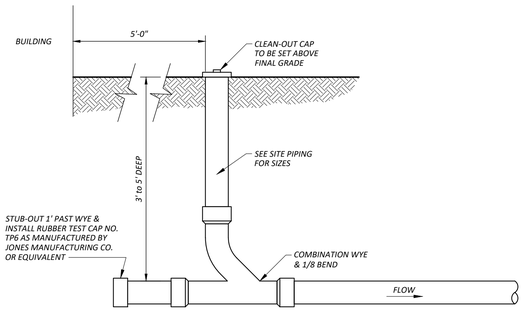
4 SEWER CROSSING UNDER STORM SEWER

N.T.S.
MISC-26



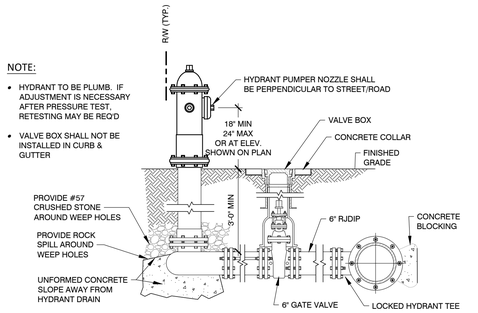
5 SANITARY SEWER STORM SEWER PIPE CROSSING

N.T.S.
SSWR-16



6 SEWER SERVICE CLEAN-OUT

N.T.S.
SSWR-07C

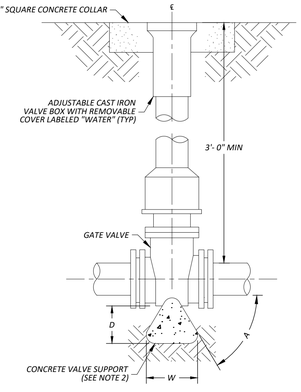


7 FIRE HYDRANT INSTALLATION

N.T.S.
WATR-03C

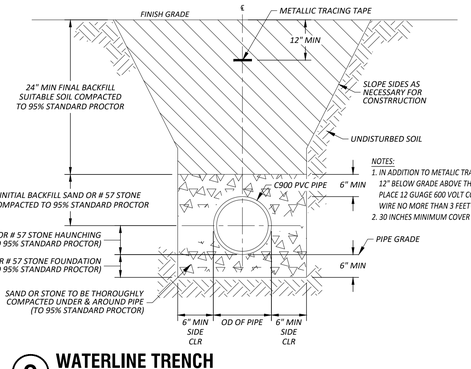
NOTES:
1. DIMENSION "D" SHALL BE LARGE ENOUGH TO MAKE ANGLE "A" EQUAL TO OR GREATER THAN 45°.
2. CONCRETE SHALL NOT INTERFERE WITH MECH. JOINT FITTINGS.

CONC BLOCKING SIZE		
PIPE SIZE	W	D
3"	1'-0"	SEE NOTE 1
4"	1'-0"	
6"	1'-3"	
8"	1'-6"	
12"	2'-3"	
16"	3'-0"	



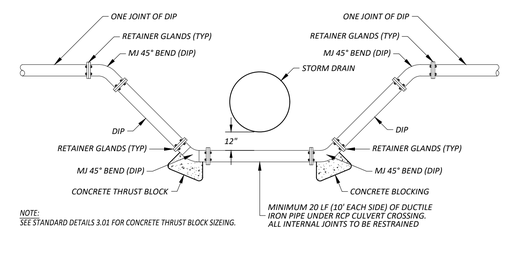
8 VALVE BOX

N.T.S.
WATR-31



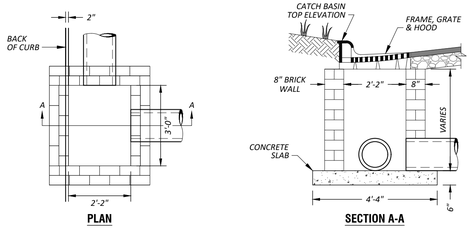
9 WATERLINE TRENCH

N.T.S.
WATR-37



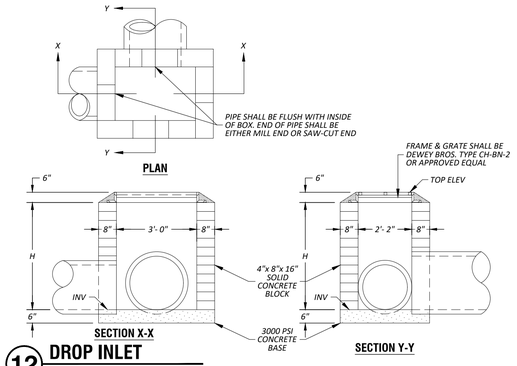
10 PIPE CROSSING STORM DRAIN

N.T.S.
SRRM-16



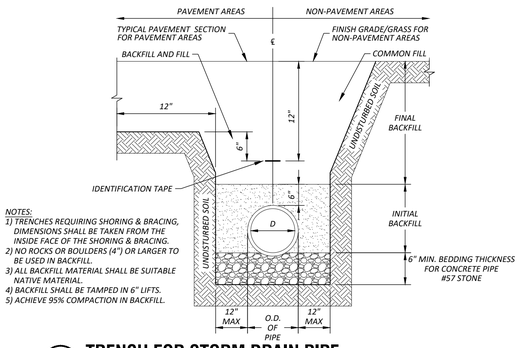
11 STANDARD CATCH BASIN

N.T.S.
STRM-17



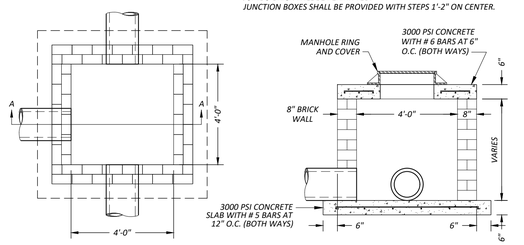
12 DROP INLET

N.T.S.
STRM-09



13 TRENCH FOR STORM DRAIN PIPE

N.T.S.
STRM-34



14 JUNCTION BOX

N.T.S.
STRM-09B

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NORTH CAROLINA PROFESSIONAL SEAL 043241 ENGINEER SCOTT B. RIVERS

Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

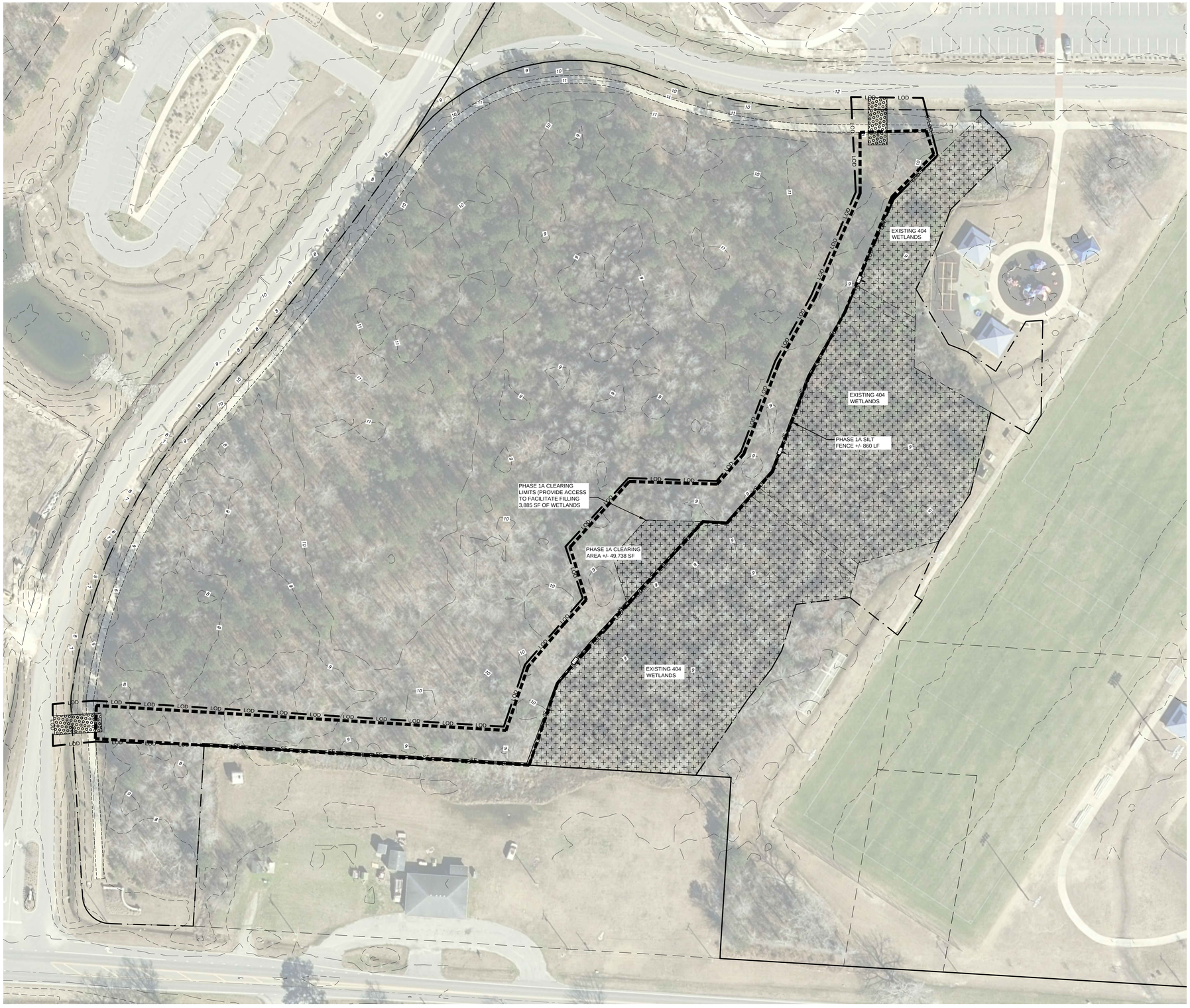
CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

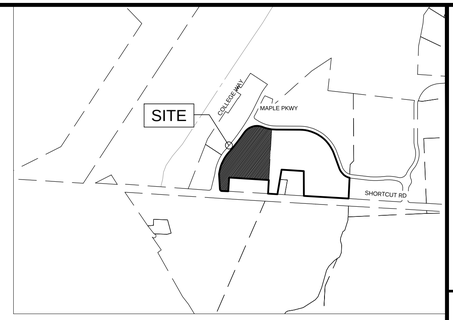
GRADING, DRAINAGE, & UTILITIES DETAILS

DESIGNED BY:	BR
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C4.21

Do Not Use for Construction - PRELIMINARY



PHASE 1A DISTURBED AREA = 1.43 ACRES
TOTAL DISTURBED AREA = 10.00 ACRES



VICINITY MAP

1" = 1000' - 0"

NOTE:

CONTRACTORS SHALL NOT CUT ANY TREES ON ON SITE DURING THE FOLLOWING TIME PERIODS: DECEMBER 15 THROUGH FEBRUARY 14 AND / OR APRIL 15 THROUGH JULY 31.

EROSION CONTROL LEGEND		
DESCRIPTION	SYMBOL	DETAIL
SILT FENCE	SF	
SILT FENCE OUTLET		
INLET PROTECTION		
PIPE INLET PROTECTION		
GRAVEL CONSTRUCTION ENTRANCE/EXIT		
TREE PROTECTION FENCE	TPF	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF	
TEMPORARY CHECK DAM		
LIMITS OF DISTURBANCE	LOD	
CONSTRUCTION FENCE	C	
CLEARING LIMITS		

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50' 0 25' 50'

SCALE 1 inch = 50 ft

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353 E. Six Forks Road
Raleigh, NC 27609
919.594.1626

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17230 JOSEPH STEPHEN JANKOWSKI

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

CLEARING, GRUBBING & EROSION CONTROL PLAN, PHASE 1A

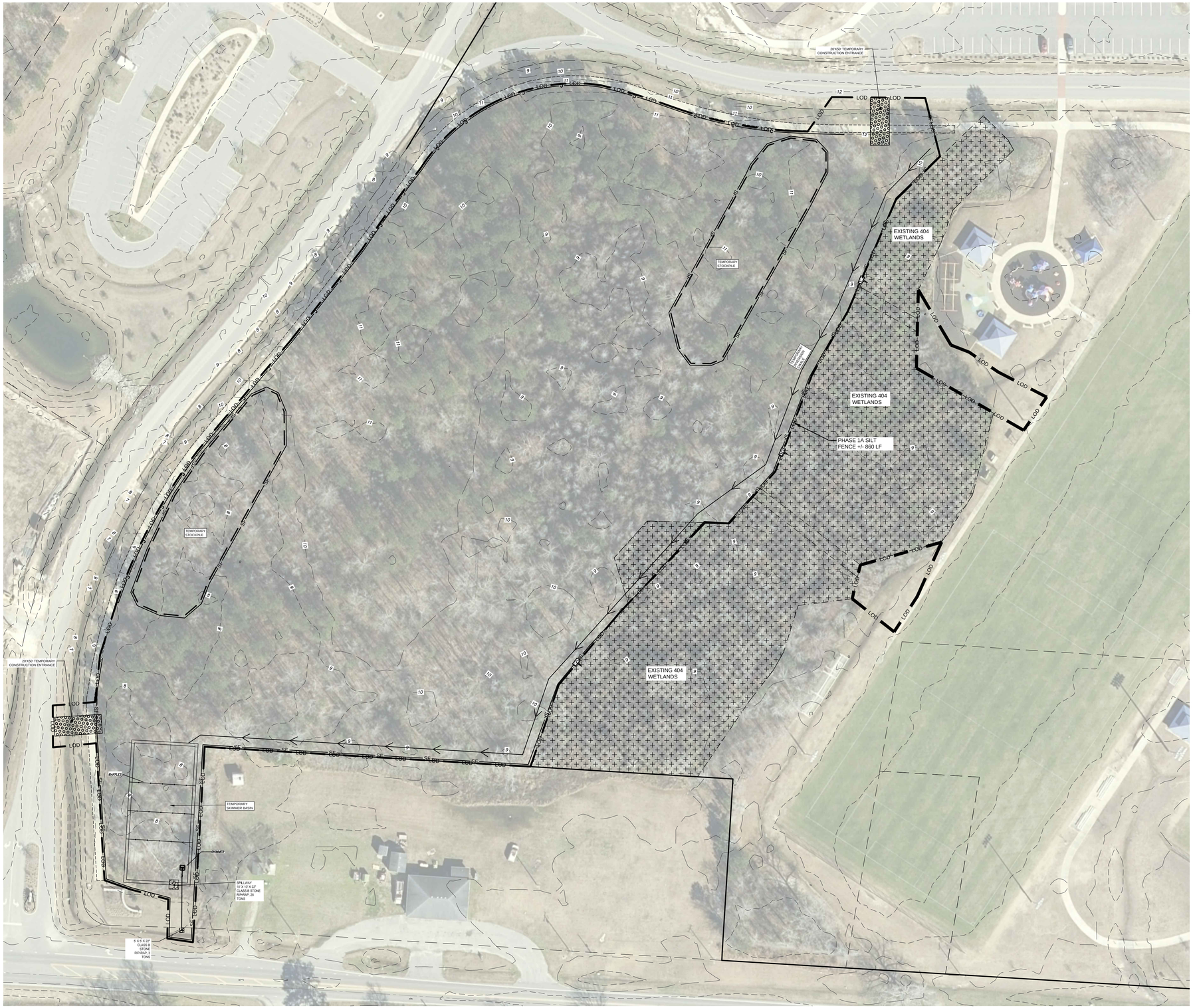
DATE: JUNE 20, 2023

DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	1:50

SHEET No.

C5.01

M:\WORK\WR\PLAN_SET\PHASE 1\CURRITUCK_COUNTY_PK_2022109\CADD_SHEETS\C5.01_EROSION CONTROL_1A.DWG - C5.01 - PHASE 1A EROSION CONTROL - 6/20/2023 3:49:57 PM - STAFF WORKS



EROSION CONTROL LEGEND		
DESCRIPTION	SYMBOL	DETAIL
SILT FENCE	SF	
SILT FENCE OUTLET		
INLET PROTECTION		
PIPE INLET PROTECTION		
GRAVEL CONSTRUCTION		
TREE PROTECTION FENCE	TPF	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF	
TEMPORARY CHECK DAM		
LIMITS OF DISTURBANCE	LOD	
CONSTRUCTION FENCE	C	

NOTE:

CONTRACTORS SHALL NOT CUT ANY TREES ON ON SITE DURING THE FOLLOWING TIME PERIODS: DECEMBER 15 THROUGH FEBRUARY 14 AND / OR APRIL 15 THROUGH JULY 31.

TOTAL DISTURBED AREA = 10.00 ACRES

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SCALE 1 inch = 50 ft

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 23241 JOSEPH JANNEY

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

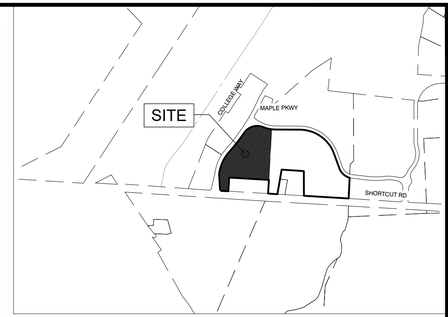
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

CLEARING, GRUBBING & EROSION CONTROL PLAN, PHASE 1B

DATE:	JUNE 20, 2023
DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	1:50
SHEET No.	C5.02

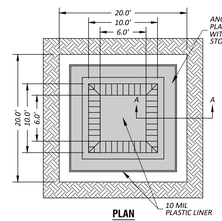
J:\WORKSPACE\CAD FILES\CAD\PLOTS\2022\2022109\2022109_SHEETS\2022109_EROSION CONTROL.DWG - C5.02 - PHASE EROSION CONTROL - 6/20/2023 3:43:53 PM - STUART BARNES

EROSION CONTROL LEGEND	
DESCRIPTION	SYMBOL
SILT FENCE	SF
SILT FENCE OUTLET	
INLET PROTECTION	
GRAVEL CONSTRUCTION ENTRANCE/EXIT	
CONCRETE WASHOUT	
CURB INLET PROTECTION	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF
TEMPORARY CHECK DAM	
LIMITS OF DISTURBANCE	LOD
CONSTRUCTION FENCE	C

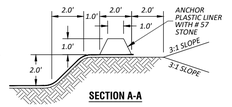


VICINITY MAP

1" = 1000' - 0"

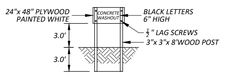


PLAN
BELOW GRADE



SECTION A-A

NOTES:
1) ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2) THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3) PIT CAPACITY IS A MIN. OF 6 CFT. PER 10 CYD. OF CONCRETE.
4) CONTRACTOR TO COORDINATE PROPER DISPOSAL OF CONCRETE.



CONCRETE WASHOUT SIGN OR EQUIVALENT

1 CONCRETE WASHOUT PIT

N.T.S.
EC-36

STAGE 1C CONSTRUCTION SEQUENCE

17. OBTAIN PLAN APPROVALS AND ALL APPROVALS AND ALL APPLICABLE PERMITS.
18. FLAG LIMITS OF CLEARING AND GRUBBING AND GRADING.
19. HOLD PRE-CONSTRUCTION MEETING WITH CONTRACTOR, EROSION CONTROL ADMINISTRATOR (252-946-6481), PROJECT ENGINEER, AND OWNER BEFORE WORK BEGINS.
20. INSTALL SILT FENCE FENCES AND SILT FENCE OUTLETS AS THE FIRST CONSTRUCTION ACTIVITY, CLEARING ONLY AS NECESSARY.
21. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE AND TEMPORARY DRIVEWAY PIPE.
22. PRIOR TO BEGINNING ANY SITE WORK OR GRADING, THE CONTRACTOR SHALL COMPLETE ALL SITE DEMOLITION AND/OR RELOCATION OF EXISTING UTILITIES. REFER TO THE DEMOLITION PLAN AND UTILITY PLAN.
23. BEGIN BRINGING SITE UP TO GRADE. THE CONTRACTOR SHALL CONSTRUCT THE RETAINING WALL AROUND THE PERIMETER OF THE PARKING LOT AREA.
24. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES

NOTE:
REFER TO PERMIT PLAN SHEETS C5.01, C5.02, C5.11, AND C5.21 FOR INITIAL SEDIMENTATION & EROSION CONTROL MEASURES.

CONTRACTORS SHALL NOT CUT ANY TREES ON ON SITE DURING THE FOLLOWING TIME PERIODS: DECEMBER 15 THROUGH FEBRUARY 14 AND / OR APRIL 15 THROUGH JULY 31.

NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.

TOTAL DISTURBED AREA = 10.00 ACRES

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50' 0 25' 50'
SCALE 1 inch = **50** ft

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NORTH CAROLINA PROFESSIONAL SEAL 032411 ENGINEER JOSEPH S. JAMES

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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

SEDIMENTATION & EROSION CONTROL PLAN - STAGE 1C

DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN

SHEET No.
C5.03

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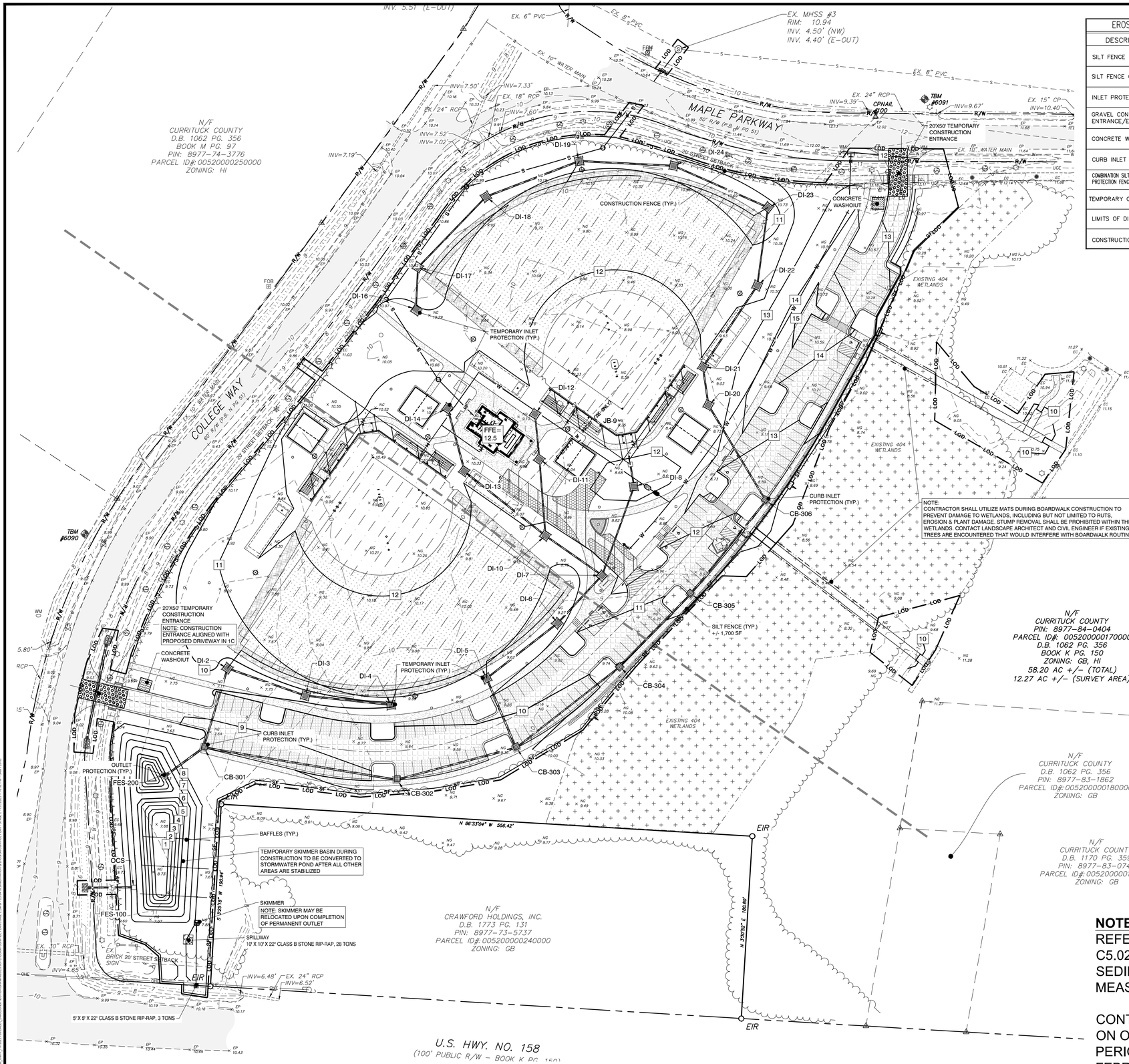
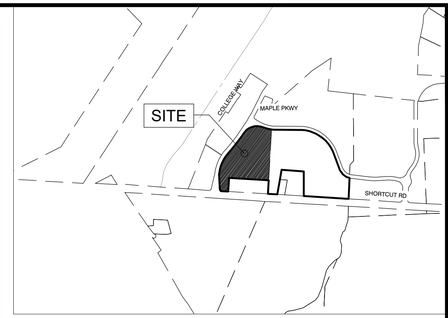


TOTAL DISTURBED AREA = 10.00 ACRES

EROSION CONTROL LEGEND	
DESCRIPTION	SYMBOL
SILT FENCE	SF
SILT FENCE OUTLET	
INLET PROTECTION	
GRAVEL CONSTRUCTION ENTRANCE/EXIT	
CONCRETE WASHOUT	
CURB INLET PROTECTION	
COMBINATION SILT AND TREE PROTECTION FENCE	TPF–SF
TEMPORARY CHECK DAM	
LIMITS OF DISTURBANCE	LOD
CONSTRUCTION FENCE	C

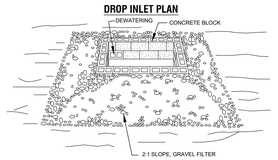
NOTE:
CONTRACTOR SHALL UTILIZE MATS DURING BOARDWALK CONSTRUCTION TO PREVENT DAMAGE TO WETLANDS, INCLUDING BUT NOT LIMITED TO RUTS, EROSION & PLANT DAMAGE. STUMP REMOVAL SHALL BE PROHIBITED WITHIN THE WETLANDS. CONTACT LANDSCAPE ARCHITECT AND CIVIL ENGINEER IF EXISTING TREES ARE ENCOUNTERED THAT WOULD INTERFERE WITH BOARDWALK ROUTING.



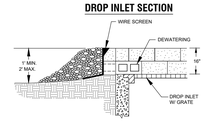
VICINITY MAP

1" = 1000' - 0"

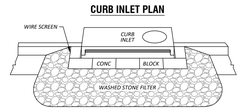
DROP INLET PLAN



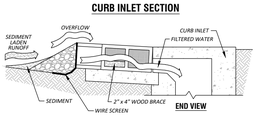
DROP INLET SECTION



CURB INLET PLAN



CURB INLET SECTION



NOTES:
1) SEDIMENT BARRIERS SHALL BE PROVIDED FOR ALL CURB INLETS IN THE IMMEDIATE AREA OF CONSTRUCTION.
2) TWO CONCRETE BLOCKS SHALL BE PLACED ON THEIR SIDES ABUTTING THE CURB AT EITHER SIDE OF THE INLET OPENING. A 2" x 4" STUD SHALL BE CUT AND PLACED THROUGH THE OUTER HOLES OF THE SPACER BLOCKS TO BRACE THE FRONT BLOCKS. FRONT BLOCKS ARE PLACED ON THEIR SIDES ACROSS THE INLET AND ABUTTING THE SPACER BLOCKS.
3) NCDOT # 57 STONE SHALL BE PLACED AGAINST THE WIRE TO THE TOP OF THE BLOCK.

NOTE THAT THIS MEASURE IS NOT TO BE USED ON CITY STREETS OPEN TO TRAFFIC AND/OR WHERE THE FINISHED COURSE OF ASPHALT HAS BEEN PLACED.

CONSTRUCTION SPECIFICATIONS:
1. *LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2 X 4 WOOD STUDS THROUGH BLOCK OPENINGS.*
2. *CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH ½-INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.*
3. *USE CLEAN GRAVEL, ¾- TO ½-INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.*
4. *IF ONLY STONE AND GRAVEL ARE USED, KEEP THE SLOPE TOWARD THE INLET NO STEEPER THAN 3:1. LEAVE A MINIMUM 1-FOOT WIDE LEVEL STONE AREA BETWEEN THE STRUCTURE AND AROUND THE INLET TO PREVENT GRAVEL FROM ENTERING INLET. ON THE SLOPE TOWARD THE INLET, USE STONE 3 INCHES IN DIAMETER OR LARGER. ON THE SLOPE AWAY FROM THE INLET USE ½ - ¾-INCH GRAVEL (NCDOT #57 WASHED STONE) AT A MINIMUM THICKNESS OF 1-FOOT.*

MAINTENANCE:
1. *INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½ INCH OR GREATER) RAINFALL AND MAKE REPAIRS AS NEEDED.*
2. *REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.*
3. *WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.*

1 TEMPORARY BLOCK & GRAVEL INLET PROTECTION

N.T.S.

STAGE 2 CONSTRUCTION SEQUENCE

25. INSTALL STORM PIPE SYSTEM AND TEMPORARY INLET PROTECTION. GRADE ALL PERMANENT SWALES/DITCHES, AND INSTALL DITCH LINERS. INSTALL PROPOSED UTILITIES.
26. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE OWNER OR COUNTY ENGINEER IF DEEMED NECESSARY.
27. INSTALL IRRIGATION SYSTEM MAINLINES AND OUTLETS.
28. EXCAVATE AND POUR CONCRETE FOOTINGS: LIGHT TOWERS, DUGOUTS, BLEACHERS, ETC.
29. AFTER GRADING IS COMPLETE, THEN ESTABLISH PERMANENT GROUND COVER ON ALL DISTURBED AREAS, INCLUDING PAVING, LANDSCAPING, MULCH, AND ESTABLISH A DENSE STAND OF GRASS. ANY BARE SPOTS, EROSIVE RILLS OR EROSIVE SLOPES SHALL BE PERMANENTLY STABILIZED WITH AN EROSION CONTOL BLANKET AND GRASS (SEED, HYDROSEED OR SOD AS NEEDED). THE CONTRACTOR SHALL WATER ALL VEGETATION AS NEEDED FOR HEALTHY PLANTS AND GRASS UNTIL CONSTRUCTION IS COMPLETE AND APPROVED BY MUNICIPALITIES.
30. INSTALL BALL FIELD DRAIN TILE SYSTEMS AND DRAIN OUTLETS.
31. INSTALL ELECTRIC LINES, CABLES, OUTLETS TO LIGHT TOWERS, DUGOUTS, STANDS.
32. LAY OUT STABILIZED AREAS: HAUL IN AGGREGATE FOR WARNING TRACKS, PATHS TO HOME PLATE IN FRONT OF DUGOUTS.
33. PREPARE NATIVE TOPSOIL PER PROJECT SPECS. REMOVE ALL SOIL FROM THE EXISTING FIELD AREA AND REPLACE WITH DRAINAGE SYSTEM AND SAND-BASED ROOT ZONE FOR THE GROWING MEDIUM.
34. STERILIZE NATIVE SOILS MATERIAL IF POSSIBLE.
35. ROTO-TILL THE SOIL FOR UNIFORM AND THOROUGH MIXING. REWORK THE AREA TO GRADE ELEVATIONS WITH LASER GRADER.
36. VERIFY ELEVATIONS WITH SURVEYS REPORT.
37. ROLL THE AREA TO A FIRM SOIL.
38. INSTALL BACK STOPS, FENCES, SCOREBOARD, FLAG POLE, FOUL LINE MARKER.
39. BUILD PITCHER'S MOUND.
40. SPREAD STARTING FERTILIZER AT BALL FIELDS.
41. FINISH GRADING WITH LASER DEVISE: REMEASURE DIAMOND AND CAREFULLY RECHECK ELEVATIONS.
42. SET THE HOME PLATE, PITCHER'S PLATE ANCHORS, AND BASE ANCHORS.
43. MARK ALL GRASS LINES, CIRCLES, ARCS, AND BOXES WITH CHALK OR LIME.
44. PLANT THE AREA WITH SOD PER PROJECT SPECS.
45. INSTALL WARNING TRACKS.
46. FINISH CONSTRUCTION AND INSTALLATION OF DUGOUTS, LIGHT TOWERS, BLEACHERS, BUILDING, SHELTERS, AND PARKING LOT.
47. ONCE 80% STABILIZATION HAS BEEN ACHIEVED AND A DENSE STAND OF GRASS ESTABLISHED, REMOVE ALL TEMPORARY MEASURES, FINE GRADE DISTURBED AREAS, AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS. CONTACT EROSION CONTROL INSPECTOR FOR ONSITE INSPECTION.
48. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL COMPLETION OF THE PROJECT.
49. WITHIN 6' OF FINAL GRADE, RE-DISTRIBUTE 6" OF TOP SOIL.
50. FINE GRADE, PERMANENTLY SEED AND MULCH ALL-LANDSCAPED AREAS. HOLD FINAL ONSITE INSPECTION WITH EROSION CONTROL INSPECTOR AND OBTAIN FINAL APPROVAL.

NOTE:
REFER TO PERMIT PLAN SHEETS C5.01, C5.02, C5.11, AND C5.21 FOR INITIAL SEDIMENTATION & EROSION CONTROL MEASURES.

CONTRACTORS SHALL NOT CUT ANY TREES ON ON SITE DURING THE FOLLOWING TIME PERIODS: DECEMBER 15 THROUGH FEBRUARY 14 AND / OR APRIL 15 THROUGH JULY 31.

CALL BEFORE YOU DIG!
WWW.NC811.ORG
N.C. ONE-CALL CENTER
IT'S THE LAW!

50' 0 25' 50'
SCALE 1 inch = 50 ft

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Preliminary DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA
SEDIMENTATION & EROSION CONTROL PLAN - STAGE 2

DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C5.04

Do Not Use for Construction - PRELIMINARY

DATE:

PAGE:

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

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

SECTION E: GROUND STABILIZATION

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

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

GROUND STABILIZATION SPECIFICATION

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

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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

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

PORTABLE TOILETS

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

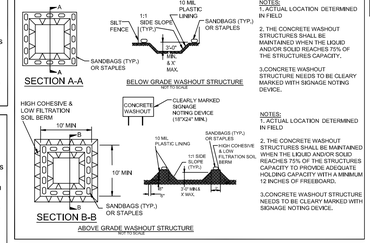
EARTHEN STOCKPILE MANAGEMENT

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

HAZARDOUS AND TOXIC WASTE

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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

NORTH CAROLINA *Environmental Quality*

EFFECTIVE DATE: 11/12/2020

NCG-01 GROUND COVER & MATERIALS HANDLING

DATE:

PAGE:

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

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

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

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

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

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

(b) Records of Inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all Inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.
(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
(d) Anticipated bypasses and unanticipated bypasses.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframe (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related caused, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	• Within 24 Hours, an oral or electronic notification, The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• *A report at least ten days before the date of the bypass, if possible.* The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

NORTH CAROLINA *Environmental Quality*

EFFECTIVE DATE: 11/12/2020

NCG01- SELF INSPECTION

TEMPORARY SEEDING SCHEDULE

(TO TEMPORARILY STABILIZE DENUDED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF 15 WORKING DAYS)

SEEDING DATES: DECEMBER 1 THRU APRIL 15

SEEDING MIXTURE: SPECIES
RATE (LBS/AC)

RYE (GRAIN)
120
ANNUAL LESPEDEZA (KOBE)
50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
750 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING DATES: APRIL 15 – AUGUST 15

SEEDING MIXTURE: SPECIES
RATE (LBS/AC)

GERMAN MILLET
40

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
750 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING DATES: AUGUST 15 THRU DECEMBER 15

SEEDING MIXTURE: SPECIES RATE
(LBS/AC)

RYE (GRAIN) 120

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
1000 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OF A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LBS/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LBS/AC KOBE IN LATE FEBRUARY OR EARLY MARCH

CONSTRUCTION SCHEDULE

PHASE 1A
1. OBTAIN PLAN APPROVALS AND ALL APPROVALS AND ALL APPLICABLE PERMITS.
2. FLAG LIMITS OF CLEARING AND GRUBBING AND GRADING.
3. HOLD PRE–CONSTRUCTION MEETING WITH CONTRACTOR, EROSION CONTROL ADMINISTRATOR (252–946–6481), PROJECT ENGINEER, AND OWNER BEFORE WORK BEGINS.
4. INSTALL SILT FENCE FENCES AND SILT FENCE OUTLETS AS THE FIRST CONSTRUCTION ACTIVITY.
5. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
6. INSTALL SILT FENCE PER PLAN.
7. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR STEEPER.

PHASE 1B
8. INSTALL TEMPORARY SEDIMENT BASIN AND DIVERSION SWALE PER PLAN.
9. BEGIN CLEARING AND GRUBBING SITE IN DESIGNATED AREAS AND STOCKPILE IN DESIGNATED AREA..
10. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR STEEPER.
11. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE OWNER OR CITY ENGINEER IF DEEMED NECESSARY.
12. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES, FINE GRADE DISTURBED AREAS, AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
13. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL COMPLETION OF THE PROJECT.
14. WITHIN 6" OF FINAL GRADE, RE–DISTRIBUTE 6" OF TOP SOIL.
15. FINE GRADE, PERMANENTLY SEED AND MULCH ALL–LANDSCAPED AREAS.
16. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES UPON COMPLETION AND STABILIZATION OF PROJECT(±80%).

PERMANENT SEEDING SCHEDULE

IN ROADWAY AREAS:

MARCH 1 – AUGUST 31:
SEED MIX: RATE:
TALL FESCUE 50 LB/AC
CENTIPEDE 10 LB/AC
BERMUDAGRASS (HULLED) 25 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

SEPTEMBER 1 – FEBRUARY 28:
SEED MIX: RATE:
TALL FESCUE 50 LB/AC
CENTIPEDE 10 LB/AC
BERMUDAGRASS (UNHULLED) 35 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

IN WASTE/BORROW AREAS:

MARCH 1 – AUGUST 31:
SEED MIX: RATE:
TALL FESCUE 75 LB/AC
BERMUDAGRASS (HULLED) 25 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

SEPTEMBER 1 – FEBRUARY 28:
SEED MIX: RATE:
TALL FESCUE 75 LB/AC
BERMUDAGRASS (UNHULLED) 35 LB/AC

SOIL AMENDMENTS: RATE:
FERTILIZER (10–20–20) 500 LB/AC
LIMESTONE 4000 LB/AC

MULCH:
APPLY 4,000 LB/ACRE GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR BY TACKING WITH ASPHALT, ROVING, NETTING, OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REFERTILIZE THE FOLLOWING APRIL WITH 50 LB/ACRE NITROGEN.
REPEAT AS GROWTH REQUIRES. MAY BE MOWED AS OFTEN AS NEEDED.

NOTE: SEE NCDOT'S LATEST STANDARDS FOR STABILIZATION FOR MORE INFORMATION.

TEMPORARY SEEDBED PREPARATION

1. A GOOD SEEDBED IS WELL PULVERIZED, LOOSE, AND UNIFORM.
2. LIMING – APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS. IF THE pH (ACIDITY) OF THE SOIL IS NOT KNOWN, AN APPLICATION OF GROUND AGRICULTURAL LIMESTONE AT THE RATE OF 1 – 1.5 TONS/ACRE ON FINE TEXTURED SOILS AND 2–3 TONS/ACRE ON COARSE TEXTURED SOILS IS USUALLY SUFFICIENT. APPLY LIMESTONE UNIFORMLY AND INCORPORATE INTO THE TOP 4–6 INCHES OF THE SOIL. SOILS WITH A pH OF 6 OR HIGHER NEED NOT BE LIMED.
3. FERTILIZER – BASE APPLICATION RATES ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE APPLY A 10–10–10 GRADE FERTILIZER AT 700 – 1000 LB/ACRE. BOTH FERTILIZER AND LIME SHOULD BE INCORPORATED INTO THE TOP 4–6 INCHES OF SOIL. IF A HYDRAULIC SEEDER IS USED, DO NOT MIX SEED AND FERTILIZER MORE THAN 30 MINUTES BEFORE APPLICATION.
4. SURFACE ROUGHENING – IF RECENT TILLAGE OPERATIONS HAVE RESULTED IN A LOOSE SURFACE, ADDITIONAL ROUGHENING MAY NOT BE REQUIRED, EXCEPT TO BREAK UP LARGE CLODS. IF RAINFALL CAUSES THE SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING BY DISKING, RAKING, HARROWING, OR OTHER SUITABLE METHODS. GROOVE OR FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR BEFORE SEEDING. SEE OTHER REQUIREMENTS FOR SURFACE ROUGHENING ON THIS SHEET.

PERMANENT SEEDBED PREPARATION

1. INSTALL NECESSARY MECHANICAL EROSION AND SEDIMENTATION CONTROL PRACTICES BEFORE SEEDING, AND COMPLETE GRADING ACCORDING TO THE APPROVED PLAN.
2. LIME AND FERTILIZER NEEDS SHOULD BE DETERMINED BY SOIL TESTS. SOIL TESTING IS PERFORMED FREE OF CHARGE BY THE NC DEPT. OF AGRICULTURE. SOIL TESTING LABORATORY DIRECTIONS, SAMPLE CARTONS, AND INFORMATION ARE AVAILABLE THROUGH COUNTY AGRICULTURAL EXTENSION OFFICES OR FROM NCDA. BECAUSE THE NCDA SOIL TESTING LAB REQUIRES 1–6 WEEKS FOR SAMPLE TURN–AROUND, SAMPLING MUST BE PLANNED WELL IN ADVANCE OF FINAL GRADING. TESTING IS ALSO DONE BY COMMERCIAL LABORATORIES.
3. WHEN SOIL TESTS ARE NOT AVAILABLE, FOLLOW RATES SUGGESTED IN THE PERMANENT SEEDING SCHEDULE ON THIS SHEET. APPLICATION RATES USUALLY FALL INTO THE FOLLOWING RANGES:

   GROUND AGRICULTURAL LIMESTONE:
   LIGHT TEXTURED, SANDY SOILS: 1 – 1.5 TONS/ACRE
   HEAVY TEXTURED, CLAYEY SOILS: 2 – 3 TONS/ACRE

   FERTILIZER:
   GRASSES: 800 – 1200 LB/ACRE OF 10–10–10 (OR EQUIVALENT)
   GRASS–LEGUME MIXTURES: 800 – 1200 LB/ACRE OF 5–10–10 (OR EQUIVALENT)

4. APPLY LIME AND FERTILIZER EVENLY AND INCORPORATE INTO THE TOP 4–6 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. OPERATE MACHINERY ON THE CONTOUR.
5. ROUGHEN SURFACES IN ACCORDANCE WITH THE NOTES ON SURFACE ROUGHENING ON THIS SHEET.
6. COMPLETE SEEDBED PREPARATION BY BREAKING UP LARGE CLODS AND RAKING INTO A SMOOTH, UNIFORM SURFACE (SLOPES LESS THAN 3:1.) FILL IN OR LEVEL DEPRESSIONS THAT CAN COLLECT WATER. BROADCAST SEED INTO A FRESHLY LOOSENED SEEDBED THAT HAS NOT BEEN SEALED BY RAINFALL.

NEW STABILIZATION TIMEFRAMES

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
SLOPES STEEPER THAN 3:1	7 DAYS	NONE EXCEPT FOR PERIMETER AND HQW ZONES
SLOPES 3:1 OR FLATTER	14 DAYS	NONE
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE

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NORTH CAROLINA PROFESSIONAL 12924 ENGINEER STEPHEN J. ANNOTTI

REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

EROSION CONTROL NOTES

DATE: JUNE 20, 2023
DESIGNED BY: JSJ
DRAWN BY: SCB
CHECKED BY: JSJ
PROJECT No. 2022109
DRAWING No. W-4080
SCALE: N/A
SHEET No.

C5.11

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NOTES:

1. USE STANDARD STRENGTH FABRIC W/ 8' POST SPACING AND WIRE FENCING WHERE REINFORCED SILT FENCE IS REQUIRED.

2. WITH EXTRA STRENGTH FABRIC USE 6' POST SPACING AND NO WIRE FENCING.

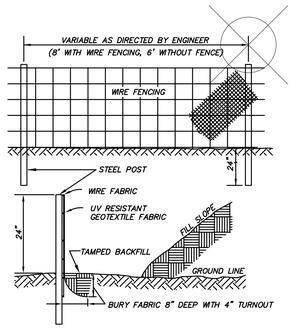
3. WIRE FENCING TO BE 32", WITH 6 LINE WIRES AND STAY WIRES ON 12" CENTERS/ BOTTOM AND TOP WIRES 10 GA., INTERMEDIATE WIRES 12.5 GA.

4. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REPAIRS IMMEDIATELY.

5. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

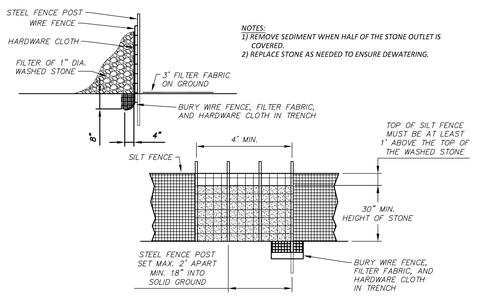
6. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

7. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



1 TEMPORARY SILT FENCE

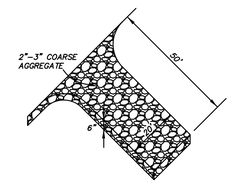
N.T.S.
EC-1(JC)



NOTES:
1) REMOVE SEDIMENT WHEN HALF OF THE STONE OUTLET IS COVERED.
2) REPLACE STONE AS NEEDED TO ENSURE DEWATERING.

2 SILT FENCE OUTLET

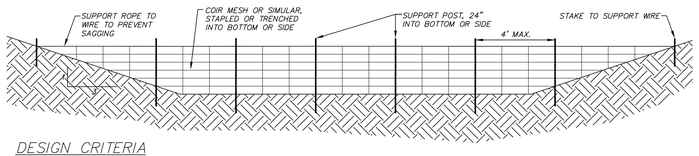
N.T.S.
(JC)



NOTES:
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.

3 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

N.T.S.
STH-26 (JC)



DESIGN CRITERIA

THE PERCENT OF SURFACE AREA FOR EACH SECTION OF THE BAFFLE ARE AS FOLLOWS:

- INLET ZONE 35%
- FIRST CELL 25%
- SECOND CELL 25%
- OUTLET ZONE 15%

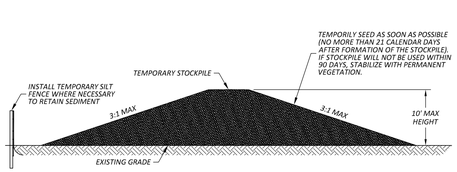
NOTE:
BAFFLES TO BE REMOVED UPON SITE STABILIZATION AND PRIOR TO EXCAVATION FOR FINAL CONTOURS FOR DRY DETENTION CELL.

4 BAFFLE DETAIL

N.T.S.
EC-42

TEMPORARY BAFFLE NOTES:
1) GRADE THE BASIN SO THAT THE BOTTOM IS LEVEL (FRONT TO BACK & SIDE TO SIDE).
2) INSTALL POSTS OR SAWHORSES THE WIDTH OF THE SEDIMENT TRAP.
3) STEEL POSTS SHOULD BE DRIVEN TO A DEPTH OF 24", SPACED A MAXIMUM OF 4' APART & INSTALLED ON THE SIDES OF THE BASIN AS WELL. THE TOP OF THE FABRIC SHOULD BE 6" HIGHER THAN THE INVERT OF THE SPILLWAY. TOPS OF BAFFLES SHOULD BE 2" LOWER THAN THE TOP OF THE BERMS.
4) INSTALL AT LEAST (3) ROWS OF BAFFLES BETWEEN THE INLET & OUTLET DISCHARGE POINT. BASINS 20' IN LENGTH MAY USE (2) BAFFLES.
5) WHEN USING POSTS, ADD SUPPORT WIRE OR ROPE ACROSS THE TOP OF THE MEASURE TO PREVENT SAGGING.
6) WRAP POROUS MATERIAL (JUTE BACKED OR COIR) OVER SAWHORSES OR THE TOP WIRE. HAMMER REBAR INTO THE SAWHORSE LEGS.
FOR ANCHORING. THE FABRIC SHOULD HAVE 5% TO 10% OPENINGS IN THE WEAVE. ATTACH FABRIC TO A ROPE AND A SUPPORT
STRUCTURE WITH ZIP TIES, WIRE OR STAPLES.
7) THE BOTTOM & SIDES OF THE FABRIC SHOULD BE ANCHORED IN A TRENCH OR PINNED WITH 8" EROSION CONTROL MATTING STAPLES.
8) DO NOT SPLICE FABRIC, BUT USE A CONTINUOUS PIECE ACROSS THE BASIN.

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



5 TEMPORARY STOCKPLE

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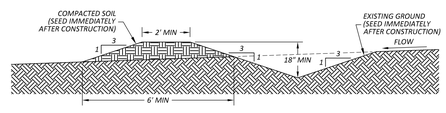
EC-22



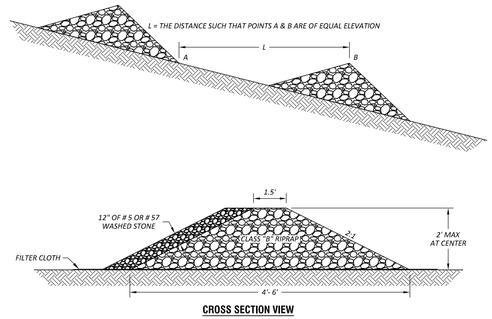
TEMPORARY DIVERSIONS

CONSTRUCTION SPECIFICATIONS:
1) REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.
2) ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS.
3) ENSURE THAT THE TOP OF THE DIKE IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENT.
4) PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REGARDING AND CLEANOUT.
5) VEGETATE THE RIDGE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.

MAINTENANCE:
INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

6 TEMPORARY DIVERSION DITCH

N.T.S.
W-SPEC-1



CROSS SECTION VIEW

ROCK CHECK DAM

CONSTRUCTION SPECIFICATIONS:
1) PLACE STONE TO THE LINES AND DIMENSIONS SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
2) KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS.
3) EXTEND STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM.
4) SET SPACING BETWEEN DAMS TO ASSURE THAT THE ELEVATION AT THE TOP OF THE LOWER DAM IS THE SAME AS THE TOE ELEVATION OF THE UPPER DAM.
5) PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION.
6) MAKE SURE THAT THE CHANNEL REACH ABOVE THE MOST UPSTREAM DAM IS STABLE.
7) ENSURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CULVERT ENTRANCES BELOW THE CHECK DAMS, ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

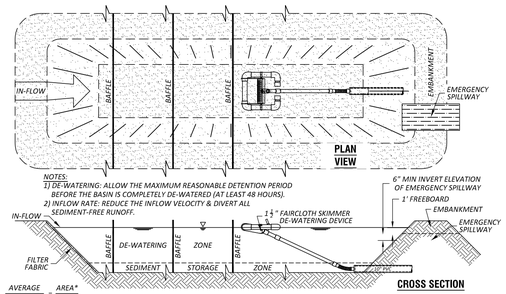
MAINTENANCE:
INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.

ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL

REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

7 TEMPORARY ROCK CHECK DAM

N.T.S.
W-SPEC-8



NOTES:
1) DE-WATERING: ALLOW THE MAXIMUM REASONABLE DETENTION PERIOD BEFORE THE BASIN IS COMPLETELY DE-WATERED (AT LEAST 48 HOURS).
2) INFLOW BATE: REDUCE THE INFLOW VELOCITY & DIVERT ALL SEDIMENT-FREE RUNOFF.

* AREA OF BASIN WATER SURFACE AT TOP OF PRINCIPAL SPILLWAY ELEVATION

SKIMMER TRAP

CONSTRUCTION SPECIFICATIONS:
1) CLEAR, GRUB AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.
2) ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
3) SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OF PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.
4) PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES.

PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.

5) ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED.
6) LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE.
7) EARTHEN SPILLWAYS - INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTION(S) SHOULD OVERLAP THE LOWER SECTION(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS.
8) INLETS - DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY
9) EROSION CONTROL - CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION.
10) INSTALL POROUS BAFFLES.
11) AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY.

MAINTENANCE:
INSPECT SKIMMER SEDIMENT TRAP(S) AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OF THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

8 SEDIMENT TRAP WITH SKIMMER

N.T.S.
EC-42

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NORTH CAROLINA PROFESSIONAL SEAL 12224 ENGINEER STEPHEN J. NOWOSIELSKI

REVISIONS:

NO.	DESCRIPTION	DATE	BY

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

EROSION CONTROL DETAILS

DATE:	JUNE 20, 2023
DESIGNED BY:	JSJ
DRAWN BY:	SCB
CHECKED BY:	JSJ
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	N/A
SHEET No.	C5.21

G:\RIVERS\PROJECTS\2022\2022109\CAD_DWG\PLANSHEETS\2022109_PHASE III PLANSHEETS-EROSION CONTROL DETAILS.DWG, 6/20/2023 9:42:53 AM, STEPHEN NOWOSIELSKI

FES-100
INV. 5.10' (E)

15" RCP - 42.11 LF @ 0.24%

OCS
RISER ELEV= 6.80
INV. 5.20' (W-OUT)

6.5' WIDE FOREBAY SHELF
AT ELEV. = 5.0'
LINE WITH CLASS 'A' RIPRAP

FOREBAY AREA = 2016 SF
BOTTOM ELEV. = 1.0'

EMERGENCY SPILLWAY AT ELEV.
=7.5
LINE WITH FIBER MAT

6'-8" WIDE VEGETATIVE SHELF AT
ELEV. = 5.0' TO 6.0'
MAIN POND AREA 7051 SF

WET POND SURFACE
ELEV. = 5.0'
PERMANENT POND AREA = 6,244 SF

CB-301
RIM: 8.90
INV. 5.13' (E)
INV. 5.13' (N)
INV. 5.13' (SW-OUT)

FES-200
INV. 5.00' (NE)

18" RCP - 42.41 LF @ 0.30%

S 3°25'18" W 190.94'

INV=4.65'

INV=6.48'

20' STREET SETBACK

SCALE 1 inch = 10 ft

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NORTH CAROLINA PROFESSIONAL SEAL 032109 ENGINEER BRIAN RIVERS

Preliminary
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

STORMWATER CONTROL PLAN

DESIGNED BY:	BR
DRAWN BY:	SBF, TAH
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C6.01

Do Not Use for Construction - PRELIMINARY

TEMPORARY RISER WITH SKIMMER BASIN TO PERMANENT WET DETENTION POND CONVERSION SEQUENCE

1. **PRIOR TO BEGINNING THE POND CONVERSION, THE CONTRACTOR SHALL CONTACT THE EROSION CONTROL INSPECTOR, AND THE COUNTY INSPECTOR TO REQUEST PERMISSION TO BEGIN THE POND CONVERSION.**
2. **PRIOR TO BEGINNING THE POND CONVERSION, THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED SURFACES IN THE UPSTREAM DRAINAGE AREA TO THE POND ARE PERMANENTLY STABILIZED WITH PERMANENT GROUND COVER (BUILDINGS, ASPHALT/CONCRETE, PARKING LOTS, SIDEWALKS, MULCH, LANDSCAPING, DITCH LINERS, AND A DENSE STAND OF GRASS.**
3. **THE TEMPORARY SEDIMENT BASIN SHALL BE DEWATERED USING A PUMP AND A SEDIMENT FILTER BAG ACCORDING TO NCDEQ STANDARDS. DISCHARGE THE WATER INTO THE RISER OR DRAINAGE OUTLET.**
4. **THE CONTRACTOR SHALL MEET ONSITE WITH THE PROJECT GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL PROVIDE FIELD GUIDANCE AS NEEDED REGARDING POTENTIAL ADDITIONAL DEWATERING MEASURES AND POND SLOPE STABILIZATION.**
5. **CONTRACTOR TO CONFIRM THAT THE PERMANENT RISER, ORIFICES, OUTLET PIPE, ANTI-SEEP COLLAR, AND CUTOFF TRENCH WERE ACCURATELY INSTALLED PER THE SCM PLAN/DETAILS SHEET, AND INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER AT THE TIME OF INITIAL BASIN CONSTRUCTION. SURVEY VERIFY AND MAKE ANY REPAIRS NEEDED.**
6. **ACCURATELY FINE GRADE THE ENTIRE POND ACCORDING TO THE SCM PLAN/DETAILS SHEET. THIS INCLUDES THE TOP OF BERM, EMBANKMENT, SLOPES, SPILLWAY, VEGETATED SHELF, MAIN POOL, FOREBAY BERM, FOREBAY, TOP OF SLOPES, TOE OF SLOPES. ALL GRADED SURFACES SHALL BE ACCURATELY GRADED TO WITHIN +/- 0.2 FEET OF VERTICAL TOLERANCE. THE CONTRACTOR SHALL RETAIN A SURVEYOR TO PERFORM CONSTRUCTION STAKEOUT AND ASBUILT SURVEY OF THE POND. PAY SPECIAL ATTENTION TO THE ACCURATE GRADING OF THE TOP OF BANK WIDTH/ELEVATION, THE 4 CORNERS OF THE SPILLWAY, SLOPES, AND THE VEGETATED SHELF.**
7. **REMOVE THE TEMPORARY SKIMMER. REMOVE THE TEMPORARY PLUGS IN THE WATER QUALITY DRAWDOWN ORIFICE AND THE DETENTION DRAWDOWN ORIFICE AS SHOWN IN THE OUTLET CONTROL STRUCTURE DETAIL. ENSURE THAT THE SCREW-ON CAP WITH ORIFICE IS PROPERLY INSTALLED ON THE WATER QUALITY DRAWDOWN PER THE OCS DETAIL. ENSURE THAT THE TRASH RACK IS PROPERLY INSTALLED AND OPENS IN THE DIRECTION SHOWN TO ALLOW MAINTENANCE ACCESS FROM THE BERM. ENSURE THAT ALL INVERTED PVC SIPHONS ARE CORRECTLY INSTALLED WITH NO LEAKS, AT THE PROPER ELEVATIONS. ENSURE THAT THE RISER STEPS ARE INSTALLED.**
8. **MUCK OUT THE BASIN. EXCAVATE THE MAIN POOL AND FOREBAY AREAS PER THE CONTOURS SHOWN ON THE SCM PLAN.**
9. **CONFIRM THAT ALL STORM PIPES, FES'S, CONCRETE ENDWALLS, ETC. ARE INSTALLED PER PLANS. INSTALL PERMANENT RIPRAP OVER FILTER FABRIC ON THE FOREBAY BERM, AND AT ALL STORM PIPE OUTLETS PER PLANS. REMOVE THE TEMPORARY IMPERMEABLE MEMBRANE LINER ON THE SPILLWAY.**
10. **AS SOON AS THE POND IS ACCURATELY GRADED, THEN PROMPTLY HAVE AN ASBUILT SURVEY OF THE POND PERFORMED. SURVEY RISER TOP ELEVATION, RISER ORIFICE ELEVATIONS/DIAMETERS, TOP OF BERM WIDTH/ELEVATION, 4 CORNERS OF THE EMERGENCY SPILLWAY ELEVATION, BOTH EDGES OF VEGETATED SHELF ELEVATIONS, ALL SLOPES, PIPE INVERTS, MAIN POOL, FOREBAY BERM AND FOREBAY. SUBMIT ASBUILT CAD FILE WITH SURVEYED AUTOCAD POINTS TO THE CIVIL ENGINEER FOR REVIEW.**
11. **OBTAIN ENGINEER'S COMMENTS. PROMPTLY MAKE ANY ADJUSTMENTS/REPAIRS NEEDED. PERFORM ADDITIONAL ASBUILT SURVEY OF ANY ADJUSTED AREAS AND SUBMIT ASBUILT SURVEY CAD FILE WITH POINTS TO CIVIL ENGINEER.**
12. **AFTER THE ENGINEER HAS ACCEPTED THE POND ASBUILT SURVEY GRADES, THEN PROMPTLY ESTABLISH PERMANENT GROUND COVER IN THE POND. ESTABLISH A DENSE STAND OF GRASS ON THE TOP OF BERM, ALL BASIN SLOPES ABOVE THE PERMANENT POOL, SPILLWAY, AND EMBANKMENT SLOPES. GRASS MAY BE INSTALLED VIA SEEDING, HYDROSEEDING, OR SOD. INSTALL PERMANENT LINER IN SPILLWAY PER THE SCM PLAN. ANY REMAINING DISTURBED OR EROSIVE AREAS SHALL BE PERMANENTLY STABILIZED WITH GRASS, SOD, AND/OR A SLOPE STABILIZATION BLANKET AS NEEDED. WATER GRASS & PLANTS ONLY AS NEEDED FOR PLANT HEALTH.**
13. **PLANTINGS IN THE VEGETATED SHELF SHOULD BE INSTALLED BY A PROFESSIONAL LANDSCAPER, AND THEY MAY TEMPORARILY ADJUST/LOWER THE POND WATER SURFACE ELEVATION AS NEEDED VIA PUMP UNTIL THE PLANTS ARE MATURELY ESTABLISHED.**
14. **SUBMIT GEOTECHNICAL NCPE CERTIFICATION OF POND BERM COMPACTION, OUTLET PIPE INSTALLATION, ANTI-SEEP COLLAR, AND CUTOFF TRENCH TO CIVIL ENGINEER.**
15. **AFTER POND CONSTRUCTION IS COMPLETE AND STABILIZED, THEN CONTACT ENGINEER TO REQUEST ONSITE INSPECTION, PUNCHLIST, AND FINAL APPROVAL. THE CONTRACTOR SHALL NOT BE RELEASED UNTIL AFTER THE POND IS PE CERTIFIED AND ACCEPTED BY THE COUNTY.**

MAINTENANCE

INSPECTION ACTIVITIES - (FREQUENCY)

WHERE MAINTENANCE REQUIRES DEWATERING, DO SO BY MEANS OF DEWATERING PUMP.

AFTER CONSTRUCTION
INSPECT AFTER SEVERAL STORM EVENTS FOR BANK STABILITY, VEGETATION GROWTH, DRAINAGE SYSTEM FUNCTIONING, AND STRUCTURAL DAMAGE.

SEMI-ANNUAL INSPECTION
INSPECT FOR INVASIVE VEGETATION, DIFFERENTIAL SETTLEMENT, CRACKING; EROSION, LEAKAGE, OR TREE GROWTH ON THE EMBANKMENT; THE CONDITION OF THE RIPRAP IN THE INLET, OUTLET, AND PILOT CHANNELS; SEDIMENT ACCUMULATION IN THE BASIN; CLOGGING OF OUTLET; AND THE VIGOR AND DENSITY OF THE VEGETATION ON THE BASIN SIDE SLOPES AND FLOOR. CORRECT OBSERVED PROBLEMS AS NECESSARY.

NOTE SIGNS OF HYDROCARBON BUILDUP SUCH AS FLOATING OIL ON WATER SURFACE. - INSPECT FOR DAMAGE TO THE EMBANKMENT AND INLET/OUTLET STRUCTURES. REPAIR AS NECESSARY. -MONITOR FOR SEDIMENT ACCUMULATION IN THE FACILITY AND FOREBAY. EXAMINE INLET AND OUTLET DEVICES TO ENSURE THEY ARE FREE OF DEBRIS AND ARE OPERATIONAL.

MAINTENANCE ACTIVITIES - (FREQUENCY)

ONE TIME
- REPLACE WET POND VEGETATION TO MAINTAIN AT LEAST 50% OF SURFACE AREA COVERAGE IN WET POND PLANTS AFTER THE SECOND GROWING SEASON.

AS NEEDED
- REPAIR UNDERCUT AREAS, EROSION TO BANKS, AND BOTTOM AS REQUIRED. WHERE PERMITTED BY THE DEPARTMENT OF FISH AND GAME OR OTHER AGENCY REGULATIONS, STOCK CONSTRUCTED WET PONDS REGULARLY WITH MOSQUITO FISH (GAMBUSIA SPP.) TO ENHANCE NATURAL MOSQUITO AND MIDGE CONTROL.

3 TO 4 TIMES PER YEAR
- CLEAN AND REMOVE DEBRIS FROM INLET AND OUTLET STRUCTURES.
- MOW SIDE SLOPES AND REMOVE GRASS CLIPPINGS. REMOVE LITTER AND DEBRIS FROM BANKS, BASIN BOTTOM, TRASH RACKS, OUTLET STRUCTURES, AND VALVES AS REQUIRED.

ANNUAL (IF NEEDED)
- -SUPPLEMENT WET POND PLANTS IF A SIGNIFICANT PORTION HAVE NOT ESTABLISHED (AT LEAST 50% OF THE SURFACE AREA).
- -REMOVE NUISANCE PLANT SPECIES.
- -CLEAN FOREBAY TO AVOID ACCUMULATION IN MAIN WET POND AREA TO MINIMIZE WHEN THE MAIN WET POND AREA NEEDS TO BE CLEANED.
- -HARVEST PLANT SPECIES IF VEGETATION BECOMES TOO THICK CAUSING FLOW BACKUP AND FLOODING. MORE FREQUENT PLANT HARVESTING MAY BE REQUIRED BY LOCAL VECTOR CONTROL AGENCIES.
- -FERTILIZE NEW VEGETATION ONE TIME ONLY. THE OWNER SHALL NOT FERTILIZE VEGETATION AFTER THE INITIAL OCCURRENCE.
- -MONITOR SEDIMENT ACCUMULATIONS, AND REMOVE SEDIMENT WHEN THE ACCUMULATED SEDIMENT VOLUME EXCEEDS 10-20% OF THE BASIN VOLUME. PLANTS ARE 'CHOKED' WITH SEDIMENT, OR THE WET POND BECOMES EUTROPHIC. IT IS SUGGESTED THAT THE MAIN AREA BE CLEANED ONE HALF AT A TIME WITH AT LEAST ONE GROWING SEASON IN BETWEEN CLEANINGS. THIS WILL HELP TO PRESERVE THE VEGETATION AND ENABLE THE WET POND TO RECOVER MORE QUICKLY FROM THE CLEANING.

PERMANENT SEEDING SPECIFICATIONS

SEEDING MIXTURE

SPECIES	RATE (LB/ACRES)
PREMIUM BERMUDA	60

NURSE PLANTS
BETWEEN APR 15 AND AUG. 15, ADD 10 LB/ACRE GERMAN MILLET OR 15 LB/ACRE SUDAN GRASS PRIOR TO MAY 1 OR AFTER AUG 15, ADD 25 LB/ACRE RYE (GRAIN)

SEEDING DATES

	BEST	POSSIBLE
EARLY SPRING:	FEB. 15-MAR. 20	FEB. 15-APR. 30
FALL:	SEPT. 1-SEPT. 30	SEPT. 1-OCT. 31

SOIL AMENDMENTS
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TEST IS NOT AVAILABLE APPLY 2 TONS/ACRE AGRICULTURAL GRADE LIMESTONE AND 1,000LBS/ACRE OF 10-10-10 FERTILIZER, OR APPLY 3,000-5,000 LB/ACRE SUDANGRASS. PRIOR TO MAY 1 OR AFTER AUG. 15, ADD 25 LB/ACRE RYE (GRASS)

MULCH
APPLY 4,000 LB/ACRE GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DICK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
IF GROWTH IS LESS THAN FULL ADEQUATE, REFERTILIZE THE SECOND YEAR. ACCORDING TO SOIL TESTS OR TOPDRESS WITH 500 LB/ACRE 10-10-10 FERTILIZER. MOW AS NEEDED. RESEED, FERTILIZE AND MULCH DAMAGED AREAS IMMEDIATELY.

AS-BUILT SURVEY:

UPON COMPLETION, CONTRACTOR TO SUBMIT NCRLS SEALED ASBUILT SURVEY OF POND, INCLUDING AUTOCAD POINTS TO OWNER/ENGINEER, INCLUDING BERM, SPILLWAY, SLOPES, MAIN POOL, FOREBAY, PIPES, INVERTS, RISER, RISER TOP ELEV, ORIFICE INVERTS, VEGETATIVE SHELF, ORIFICE DIAMETERS, ETC. TO OWNER/ENGINEER. ALL FEATURES SHALL BE WITHIN +/- 0.2 FT VERTICAL TOLERANCE OF THE DESIGN

POND NOTES

1. TOP OF BERM AND ALL SIDE SLOPES SHALL BE EITHER SODDED OR HYDROSEEDED TO ESTABLISH A DENSE STAND OF NON CLUMPING TURF GRASS
2. NO TREES SHRUBS OR WOODY VEGETATION IS ALLOWED ON THE TOP OF BERM OR SLOPES.
3. NO RIP RAP OR STONE IS ALLOWED IN THE BERM EMBANKMENT.
4. UNLESS DETERMINED OTHERWISE IN WRITTING BY THE CONTRACTORS GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL INSTALL A CLAY LINER IN THE POND UP TO THE ELEVATION NOTED
5. CONTRACTOR TO WATER PLANTINGS AND GRASS AS NEEDED
6. CONTRACTOR SHALL NOT BE RELEASED UNTIL AFTER THE POND HAS BEEN ASBUILT SURVEYED, PE CERTIFIED AND ACCEPTED BY NDENR.

STORMWATER WET POND PLANTING SPECIFICATIONS

1. ALL HERBACEOUS PLANTS WITHIN THE WET POND PROPER SHALL BE INSTALLED BETWEEN MARCH 15 AND JULY 31.
2. UNLESS OTHERWISE DESIGNATED, PLANTS SHOULD BE INSTALLED AS LARGE DRIFTS (I.E., MASSES OF A SINGLE SPECIES) WITHIN THEIR RESPECTIVE PLANTING AREAS.
3. INSTALL A SLOW RELEASE FERTILIZER TABLET NEXT TO EACH PLANT WITHIN THE WET POND PROPER. FOR HERBACEOUS SPECIES USE AG SAFE AQUATIC-TABS 20-10-5, 90 DAY CONTINUOUS FEEDING, 5 GRAMS, OR EQUIVALENT.
4. ALL PLANTS SHALL BE DIRECTLY DESCENDED FROM INDIVIDUALS GROWING WILD WITHIN 200 MILES OF THE PROJECT SITE. IF SUITABLE STOCK CANNOT BE OBTAINED, PLANTS OF OTHER GENETIC PROVENANCES MAY BE UTILIZED WITH THE APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
5. PLANT MATERIAL SHOULD CONFORM TO AMERICAN STANDARD NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. (SEE PLANT LIST AND NOTES 6, 7, 8).
6. ALL PLANT MATERIAL TO BE CONTAINER GROWN PLANTS OF AT LEAST 4.0 CUBIC INCHES CAPACITY.
7. A MINIMUM OF THREE(3) DIFFERENT SPECIES.

VEGETATIVE SHELF PLANTS:	(50 PLANTS PER 200 SF)
TOTAL:	1352 SF = 338 PLANTS

STORMWATER WET POND PLANTING TABLE

BOTANICAL NAME	COMMON NAME	QUANTITY
ASCLEPIAS INCARNATA	SWAMP MILKWEED	59
EUPATORIADELPHUS DUBIUS	DWARF JOE PYE WEED	59
CAREX TENERA	QUILL SEDGE	59
HIBISCUS LAEVIS	SCARLET ROSE MALLOW	59
RHYNCHOSPORA COLORATA	STARRUSH WHITETOP	59
LOBELIA ELONGATA	LONGLEAF LOBELIA	44

MELLOW MARSH FARMS (919) 742 1200

EMBANKMENT COMPACTION

1. ALL FILL MATERIAL FOR THE EMBANKMENT SHOULD BE PLACED IN LAYERS (OR LIFTS) NO GREATER THAN 6" THICK.
2. THE LARGEST SIZE PARTICLE SHOULD NOT BE GREATER THAN ⅔rd THE HEIGHT OF THE LIFT THAT IS 2".
3. EACH LAYER SHOULD BE THOROUGHLY COMPACTED BEFORE THE NEXT LAYER IS PLACED.
4. THE COMPACTION EFFORT ACHIEVED SHOULD BE ON AVERAGE 98% STANDARD PROCTOR ASTM D698.
5. THE MINIMUM COMPACTION EFFORT SHOULD BE 95% STANDARD PROCTOR ASTM D698.
6. THE MATERIAL FORMING THE EMBANKMENT SHOULD BE PLACED WITH SUFFICIENT MOISTURE TO ENSURE PROPER COMPACTION. THE MOISTURE CONTENT SHOULD BE IN THE RANGE OF -1% TO +3% OF OPTIMUM MOISTURE CONTENT (OMC).
7. BEFORE EACH ADDITIONAL 6" LIFT IS ADDED TO THE EMBANKMENT, THE PRECEDING LIFT SHOULD BE SCARIFIED TO ENSURE THAT THE TWO LIFTS ARE PROPERLY JOINED.
8. A WHEELED SCRAPER OR TRUCK SHOULD BE USED FOR PLACING THE CLAY ON THE DAM SITE. THE CLAY SHOULD THEN BE SPREAD BY THE USE OF THE BLADE ON A TAMPER FOOT ROLLER FROM A BULLDOZER TOWING A TAMPER FOOT ROLLER (SHEEPSFOOT ROLLER).

NOTE

THERE ARE NO EXISTING ONSITE SURFACE WATERS, WETLANDS, PROTECTED VEGETATED SETBACKS, NOR PROTECTED RIPARIAN BUFFERS ON THIS PROPERTY.

BASIN DEWATERING DURING CONSTRUCTION:

THE CONTRACTOR SHALL ARRANGE FOR THE GEOTECHNICAL ENGINEER TO PROVIDE FIELD GUIDANCE ON POND DEWATERING MEASURES DURING THE POND GRADING OPERATION.

SLOPE STABILITY:

AFTER THE POND HAS BEEN EXCAVATED, THEN THE CONTRACTOR SHALL ARRANGE FOR THE GEOTECHNICAL ENGINEER TO VISIT THE SITE TO EVALUATE THE EARTHEN SIDESLOPES STABILITY OF THE POND'S NATIVE SOILS. IF THE SLOPES ARE UNSTABLE, THEN THE CONTRACTOR SHALL UNDERCUT AND REMOVE NATIVE SOIL, AND IMPORT SUITABLE, STABLE CLAY SOILS FROM OFFSITE TO GRADE & COMPACT STABLE POND SIDESLOPES UNDER THE GEOTECHNICAL ENGINEER'S DIRECTION.

OPTIONAL SAFETY FENCE:

THE CONTRACTOR SHALL ASK THE OWNER IF THEY WANT A SAFETY FENCE CONSTRUCTED AROUND THE POND PERIMETER. IF YES, THEN THE CONTRACTOR SHALL CONSTRUCT THE SAFETY FENCE AROUND THE UPPER PERIMETER OF THE POND AND TOP OF BERM. THE FENCE MAY BE 42" HIGH GREEN OR BLACK VINYL COATED CHAIN LINK FENCE. 12' WIDE GATES FOR MAINTENANCE SHALL BE INSTALLED ADJACENT TO THE FOREBAY AND ANOTHER NEAR THE OUTLET CONTROL STRUCTURE.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 032410 REGISTERED
Preliminary
DO NOT USE FOR CONSTRUCTION

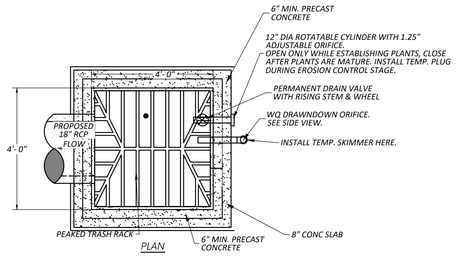
ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
CUR	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

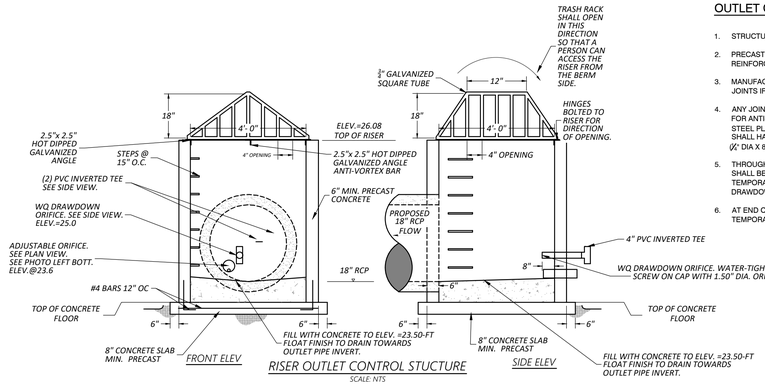
STORMWATER CONTROL NOTES

DESIGNED BY:	BR
DRAWN BY:	SBF
CHECKED BY:	BR
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C6.11



PLAN

ADJUSTABLE ORIFICE

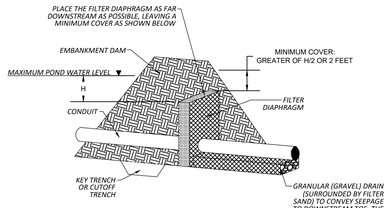


RISER OUTLET CONTROL STUCTURE

SCALE: NTS

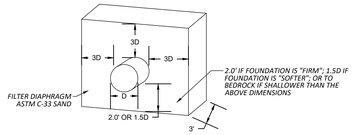
OUTLET CONTROL STRUCTURE NOTES

1. STRUCTURE SHALL BE PRECAST CONCRETE
2. PRECASTER SHALL DESIGN AND FURNISH ALL STEEL REINFORCING, WALL THICKNESS AND HARDWARE.
3. MANUFACTURE ENTIRE CONCRETE AS ONE SECTION WITH NO JOINTS IF PRACTICAL.
4. ANY JOINTS SHALL BE WATER TIGHT AND BE CONSTRUCTED FOR ANTI-FLOTATION. THEY SHALL HAVE (4) GALVANIZED STEEL PLATES 12" X 12" X X_4", ONE PER SIDE. EACH PLATE SHALL HAVE (4) GALVANIZED STEEL BOLTS (X_2" DIA X 8" L MIN), FOR ANTI-FLOTATION.
5. THROUGHOUT GRADING OPERATION, TEMPORARY SKIMMER SHALL BE IN PLACE AND DRAIN VALVE OPEN. INSTALL TEMPORARY PLUG IN DETENTION DRAWDOWN AND WQ DRAWDOWN.
6. AT END OF PROJECT, AFTER SITE IS STABLE, REMOVED TEMPORARY PLUGS AND SKIMMER AND CLOSE VALVE.



SAND FILTER DIAPHRAGM

NOT TO SCALE



SAND FILTER DIAPHRAGM

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NORTH CAROLINA PROFESSIONAL SEAL 032410 ENGINEER

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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

STORMWATER CONTROL DETAILS

DESIGNED BY:	###
DRAWN BY:	###
CHECKED BY:	###
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	C6.21

Do Not Use for Construction - PRELIMINARY

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	SIZE	QTY
CANOPY TREES						
	QB	Quercus bicolor / Swamp White Oak	B & B	3" CAL.	14` - 16` HT.	4
	QP	Quercus phellos / Willow Oak	B & B	4" CAL.	14` - 16` HT.	8
	QR	Quercus shumardii / Shumard Red Oak	B & B	3" CAL.	14` - 16` HT.	10
	QV	Quercus virginiana / Southern Live Oak	B & B	3" CAL.	14` - 16` HT.	9
	TD	Taxodium distichum / Bald Cypress	B & B	3" CAL.	14` - 16` HT.	9
	UP	Ulmus parvifolia / Chinese Lacebark Elm	B & B	3" CAL.	14` - 16` HT.	8

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONTAINER	SPACING	SIZE	QTY
SHRUBS						
	IV	Ilex vomitoria `Nana` / Dwarf Yaupon	3 gal	4` O.C.	18" MIN.	45

NOTE: TREES SHOWN WITH COLOR APPLIED TO HERITAGE TREE REPLACEMENT REQUIREMENTS:
LIVE OAK: OAK (INCL. ALL OTHER SPP.):

LANDSCAPE CALCULATIONS:

VEHICULAR USE AREA PLANTING:
REQUIRED: MIN. 180 SF OF PLANTING AREA (FOR SINGLE LOADED BAYS) REQUIRED IN EACH PLANTING ISLAND TO ACCOMODATE PLANTING MATERIAL
PROPOSED: MIN. 360 SF OF PLANTING AREA IN ISLANDS WITH 1 SHADE TREE PROPOSED AT EACH ISLAND

SITE LANDSCAPING:
REQUIRED: PUBLIC & INSTITUTIONAL USES: 4 CALIPER INCHES OF CANOPY TREES PER ACRE + AT LEAST 1 SHRUB PER EACH 5 FEET OF BUILDING FACADE FACING A STREET.
BUILDING FACING STREET = +/- 40'/5 = 8 SHRUBS REQUIRED
PROJECT AREA: 12.27 AC = 12.27 X 4 = 49 CALIPER INCHES REQUIRED
PROPOSED: 8 SHRUBS
151 CALIPER INCHES

PERIMETER BUFFERS NOT REQUIRED
EX. STREET TREES AT COLLEGE WAY & MAPLE DRIVE TO SATISFY STREET TREE REQUIREMENTS

HERITAGE TREE CALCULATIONS
REQUIREMENT:
CUMULATIVE CALIPER MEASUREMENT THAT EQUALS OR EXCEEDS ONE-HALF THE DIAMETER OF THE HERITAGE TREES REMOVED. REPLACEMENT TREES TO HAVE A MIN. CALIPER OF 2" AND MIN. ONE-HALF OF REPLACEMENT TREES TO BE OF THE SAME SPECIES OF REMOVED HERITAGE TREES.
OAK: (3) 60", 36", 24" = 240" CUMULATIVE CALIPER
LIVE OAK: 23", 18", 13" = 54" CUMULATIVE CALIPER
TOTAL CUMULATIVE CALIPER = 294"
CUMULATIVE CALIPER REPLACEMENT REQUIREMENT = 294" / 2 = 147"
REPLACEMENT OAKS REQUIRED = 120" CUMULATIVE CALIPER
REPLACEMENT LIVE OAKS REQUIRED = 27" CUMULATIVE CALIPER

OAKS PROPOSED: (14) 3" OAKS, (8) 4" OAKS (74" CUMULATIVE CALIPER, 61.6%)
(16) OTHER 3" SPECIES (48" CUMULATIVE CALIPER, 40%)
CUMULATIVE CAL. OF OAK REPLACEMENT TREES = 122"
LIVE OAKS PROPOSED: (9) 3" LIVE OAKS (27" CUMULATIVE CALIPER, 100%)
TOTAL PROPOSED: 122" + 27" = 149" CUMULATIVE CALIPER

SEE SHEET L1.11 FOR ENLARGED LANDSCAPE PLAN NORTHEAST SITE
SEE SHEET L1.12 FOR ENLARDED LANDSCAPE PLAN SOUTHWEST SITE

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50' 0 25' 50'
SCALE 1 inch = 50 ft

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NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
PRELIMINARY PLANS NOT FOR CONSTRUCTION OR RECORDATION PURPOSES
PRELIMINARY PLANS NOT FOR CONSTRUCTION OR RECORDATION PURPOSES

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

LANDSCAPE PLAN

DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	L1.01

Do Not Use for Construction - PRELIMINARY

NOTE: TREES SHOWN WITH COLOR APPLIED TO HERITAGE TREE REPLACEMENT REQUIREMENTS:

LIVE OAK: OAK (INCL. ALL OTHER SPP.):

EX. MHSS #2
RIM: 10.95
INV. 5.14' (W)
INV. 7.55' (S)
INV. 7.25' (NE)
INV. 5.10' (SE–OUT)

EX. MHSS #3
RIM: 10.94
INV. 4.50' (NW)
INV. 4.40' (E–OUT)

TBM #6091

GRVAIL #100

EX. 8" PVC

EX. 6" PVC

EX. 10" WATER MAIN

MAPLE PARKWAY
50' R/W (P.B. N PG 51)

20' STREET SETBACK

60' CANOPY TREE COVERAGE FOR ALL PARKING SPACES (TYP.)

GRASS AREA (TYP.)

SOD AREA (TYP.)

INFIELD MIXTURE

CONC. WALK

QR 5	
QV 1	
IV 5	
IV 3	
TD 1	
UP 2	
QP 1	
QB 1	
QR 1	
QP 2	
TD 2	
QB 2	
IV 8	
QV 1	
QP 1	
UP 2	
QP 1	
TD 1	

384 SF
389 SF
529 SF
361 SF
382 SF
466 SF
431 SF
426 SF
460 SF

MATCHLINE
SEE SHEET L1.12

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30' 0 15' 30'
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PURPOSES
PRM 47558
REGISTERED LANDSCAPE ARCHITECT
NORTH CAROLINA

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

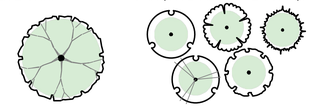
ENLARGED LANDSCAPE PLAN - NE

DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	L1.11

Do Not Use for Construction - PRELIMINARY

NOTE: TREES SHOWN WITH COLOR APPLIED TO HERITAGE TREE REPLACEMENT REQUIREMENTS:

LIVE OAK: OAK (INCL. ALL OTHER SPP.):



SEE SHEET L1.11
MATCHLINE

COLLEGE WAY
60' R/W (P.B. N 105 57)

SOD AREA (TYP.)

INFIELD MIXTURE

OV 3

QP 1

368 SF
418 SF

UP 1

60' CANOPY TREE COVERAGE FOR ALL PARKING SPACES (TYP.)

QB 1

425 SF
432 SF

TD 2

GRASS AREA (TYP.)

UP 2

QP 2

TD 3

UP 1

425 SF
405 SF

411 SF

QR 1

IV 24

QR 3

QV 1

QV 2

20' STREET SETBACK

CONC. WALK

EIR

N 39°56'54" E 184.80'

S 39°56'54" W 184.80'

N 89°37'04" W 508.42'

N/F
CRAWFORD HOLDINGS, INC.
D.B. 1773 PG. 131
PIN: 8977-73-5737
PARCEL ID#: 005200000240000
ZONING: GB

U.S. HWY. NO. 158
(100' PUBLIC R/W – BOOK K PG. 150)

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PRELIMINARY PLAT
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DATE: 7/15/25
PRM 2753

ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA

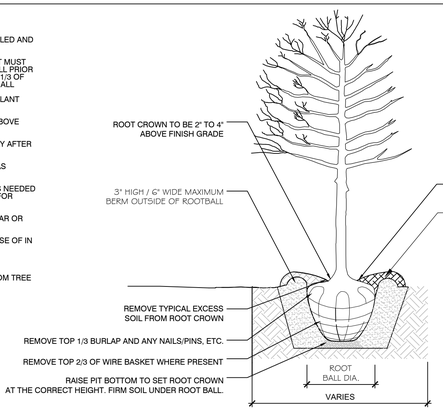
ENLARGED LANDSCAPE PLAN - SW

DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	L1.12

Do Not Use for Construction - PRELIMINARY

NOTES:

1. ALL TREES ARE TO BE NURSERY GROWN, BALLED AND BURLAP (B&B) OR CONTAINER GROWN.
2. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM THE ROOT BALL. REMOVE ALL SYNTHETIC MATERIALS: BURLAP, STRAPPING CORDAGE, ETC. PRIOR TO BACKFILLING ALL PLANT MATERIALS.
3. INSTALL TOP OF PLANT BALL TO BE 2" TO 4" ABOVE EXISTING GRADE.
4. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
5. SET TREE IN VERTICAL POSITION & STAKE IF/AS NEEDED
6. SUBMIT PREFERRED STAKING METHODS IF/AS NEEDED AND MATERIALS TO LANDSCAPE ARCHITECT FOR APPROVAL
7. ALL STAKING TO BE REMOVED AFTER ONE YEAR OR GROWING SEASON
8. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
9. RESEED UNMULCHED, DISTURBED AREAS.
10. MULCH AREA TO BE A MINIMUM 2' RADIUS FROM TREE TRUNK.



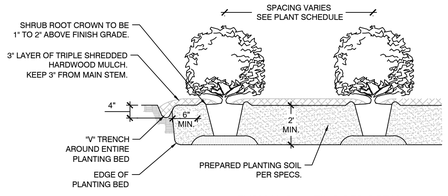
ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004)

FOR EXAMPLE: CALIPER	HEIGHT (RANGE)	MAX. HEIGHT	MIN. ROOT BALL DIA.	MIN. ROOT BALL DEPTH
2"	12-14'	16'	24"	18"
3"	14-16'	18'	32"	21"
4"	16-18'	22'	42"	25"

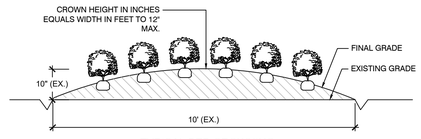
TREE PLANTING
SECTION — NTS

NOTES:

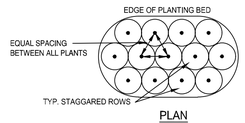
1. SCARIFY ROOT MASS OF CONTAINERIZED PLANT MATERIAL.
2. INSTALL CONTAINERIZED PLANTS 2" - 4" ABOVE FINISHED GRADE.
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
5. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.



TYPICAL PLANTING BED DETAIL

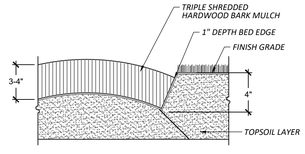


TYPICAL BED CROWNING



PLAN

SHRUB PLANTING BED
SECTION — NTS



BED TRENCHING
SECTION — NTS

PLANTING NOTES:

1. ALL PLANTINGS SHALL COMPLY WITH CURRENT LOCAL ORDINANCES AND GUIDELINES.
2. THIS PLAN IS FOR PLANTING LOCATIONS ONLY AND ALL PLANT MATERIAL SHALL BE SPACED AND LOCATED PER SCHEDULE. HOWEVER, CONTRACTOR TO SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITIES. IF FOUND CONDITIONS VARY FROM THIS PLAN, CONTRACTOR SHALL CONTACT OWNER AND LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO DO SO WILL RESULT IN CONTRACTOR'S LIABILITY TO REPLACE PLANT MATERIALS.
3. REFER TO PLANTING DETAILS FOR ADDITIONAL PLANTING INFORMATION.
4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PLANT WATERING AND MAINTENANCE, INCLUDING SHRUBS AND GROUNDCOVER, AND SHALL MAINTAIN AREA IN A WEED AND DEBRIS FREE CONDITION, THROUGHOUT GUARANTEE PERIOD.
5. CONTRACTOR TO VERIFY PLANT LIST TOTALS WITH QUANTITIES SHOWN ON PLAN.
6. ALL SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE JUDGED. FAILURE TO MEET MINIMUM SIZE ON ANY PLANT WILL RESULT IN REJECTION OF THAT PLANT.
7. PLANTING SIZE DETERMINATION:
   7.1. TREES: HEIGHT SHALL BE MEASURED FROM THE CROWN OF THE ROOT BALL TO THE TOP OF MATURE GROWTH. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH. SINGLE TRUNK TREES SHALL BE FREE OF "V" CROTCHES THAT COULD BE POINTS OF WEAK LIMB STRUCTURE OR DISEASE INFESTATION.
   7.2. ALL PLANTS SHALL BE FRESHLY DUG OR IN GROW POTS, SOUND, HEALTHY, VIGOROUS, WELL BRANCHED, FREE OF DISEASE, INSECT EGGS, AND LARVAE, AND SHALL BE WELL ROOTED.
8. FINISHED PLANTING BEDS SHALL BE GRADED SO AS TO NOT IMPEDE DRAINAGE AWAY FROM BUILDINGS. IF SIGNIFICANT RELOCATIONS ARE REQUIRED, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH RELOCATIONS KNOWN TO THE OWNER AND LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY FOR PLANT MATERIALS AND STORMWATER DAMAGE.
9. FIELD LOCATE AND VERIFY UNDERGROUND UTILITIES LOCATIONS PRIOR TO PLANTING. FINAL TREE LOCATIONS TO BE FIELD ADJUSTED TO AVOID CONFLICTS WITH UTILITIES, LIGHTING AND DRIVEWAY LOCATIONS WHERE POSSIBLE. CONTACT LANDSCAPE ARCHITECT FOR A COORDINATED SOLUTION FOR ANY UTILITY CONFLICTS. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ANY AND ALL PUBLIC OR PRIVATE UTILITIES.
10. TREES SHALL BE STAKED WITH AN AT GRADE TREE STAKING SYSTEM. STAKING MUST BE REMOVED AS SOON AS POSSIBLE OR WITHIN ONE (1) YEAR OF PLANTING. MULCH SHALL BE APPLIED IN AN EVEN THREE INCH (3") TO TO FOUR INCH (4") LAYER AROUND THE TREE PIT IN ACCORDANCE WITH ACCEPTED PRACTICES IN THE LANDSCAPE INDUSTRY.
11. CONTRACTOR SHALL NOT PLACE MULCH IN CONTACT WITH THE TRUNKS OF TREES OR SHRUBS.
12. ALL TREE PITS, SHRUB BEDS AND PREPARED PLANTING BEDS ARE TO BE COMPLETELY EXCAVATED IN ACCORDANCE WITH THE PLANTING DETAILS.
13. THE ROOT CROWN SHALL BE 1 INCH (1") TO 2 INCHES (2") ABOVE FINISHED GRADE (AFTER SETTLING) FOR SHRUBS AND TWO INCHES (2") TO FOUR INCHES (4") ABOVE FINISHED GRADE (AFTER SETTLING) FOR TREES.
14. ALL SUBSTITUTIONS OF PLANT MATERIAL ARE TO BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER PRIOR TO INSTALLATION. FAILURE TO OBTAIN SUBSTITUTION APPROVAL IN WRITING MAY RESULT IN LIABILITY TO THE CONTRACTOR.
15. DEAD PLANTS ARE TO BE REMOVED FROM THE JOB BY THE CONTRACTOR WEEKLY. CONTRACTOR SHALL MAINTAIN AN UPDATED, COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AND THE LANDSCAPE ARCHITECT AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
16. TOPSOIL REQUIRED FOR SOIL MIXES AND SPECIAL SEEDING AREAS SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR MUST LOAD, HAUL, MIX, AND SPREAD ALL TOPSOIL AND OTHER SOIL ADDITIVES AS REQUIRED.
17. THE PROPERTY OWNER AND/OR LESSEE SHALL, UPON COMPLETION OF THE GUARANTEE PERIOD AND FINAL ACCEPTANCE OF THE LANDSCAPE MATERIALS, MAINTAIN ALL LANDSCAPE MATERIALS AND LANDSCAPE AREAS IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, MOWING, FERTILIZING, TREATING PESTS, MULCHING, PRUNING, REMOVAL AND REPLACEMENT OF DEAD OR DISEASED TREES AND SHRUBS. MAINTENANCE SHALL BE PERFORMED ON A REGULAR BASIS IN ORDER TO MAINTAIN PLANT VIGOR AND STABILITY AND TO PRESENT A NEAT AND WELL-KEPT APPEARANCE AT ALL TIMES.
18. CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE IMPROVEMENTS, INCLUDING SEEDING, AS REQUIRED BY THE SPECIFICATIONS. CONTRACTOR MUST CONTACT THE OWNER AND THE LANDSCAPE ARCHITECT AT LEAST 10 WORKING DAYS IN ADVANCE TO SCHEDULE ACCEPTANCE INSPECTION(S). CONTRACTOR MUST REPLACE ALL DEAD OR UNACCEPTABLE PLANTS DURING THE FOLLOWING RECOMMENDED PLANTING SEASON.
19. ALL TREES AND SHRUBS SHALL MEET THE NORMAL REQUIREMENTS FOR THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN (AAN) OR AMERICAN HORT, ANSI Z60.1.
20. MULCH SHALL BE FREE OF DEBRIS AND WOOD CHIPS. IT SHALL CONSIST OF AGED TRIPLE-SHREDDED HARDWOOD MULCH, FREE OF EXCESS TANNIC ACID OR OTHER MULCH AS SPECIFIED ON THE PLANS. SAMPLES OF MULCH SHALL BE PROVIDED FOR THE THE LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO DELIVERING THE MULCH. THE OWNER RESERVES THE RIGHT TO REJECT ANY MULCH WHICH IS CONSIDERED TO BE UNSUITABLE. ALL MULCHES SHALL BE FREE OF ANY FOREIGN MATERIALS, PIECES LARGER THAN 6 INCHES, AND/OR GREEN WOOD.
21. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM THE ROOT BALL. REMOVE ALL SYNTHETIC MATERIALS: BURLAP, STRAPPING CORDAGE, ETC. PRIOR TO BACKFILLING ALL PLANT MATERIALS.
22. NO PLANTING IDENTIFIED AS REACHING A MATURE HEIGHT OF MORE THAN TWENTY FEET (20') SHALL BE PLACED WITHIN A TRANSMISSION POWER LINE RIGHT-OF-WAY OR WITHIN TEN FEET (10') OF AN OVERHEAD UTILITY LINE.
23. TREES WHICH OVERHANG THE PEDESTRIAN CIRCULATION ROUTES AT THE STREETS, SIDEWALKS OR WITHIN OPEN SPACE AREAS SHALL NOT EXTEND GREATER THAN FOUR INCHES INTO THE CIRCULATION ROUTE AT A HEIGHT LESS THAN 80 INCHES ABOVE THE ADJACENT GRADE. ALL TREES SHALL BE LIMBED TO PROVIDE 80 INCHES OF CLEARANCE AT WALKWAYS TO MEET A.D.A AND ANSI Z60.1 REQUIREMENTS.

LANDSCAPE NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE, AND MATERIAL OF EXISTING SITE AND VICINITY FEATURES AND UTILITIES PRIOR TO BEGINNING DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY DISCREPANCIES THAT ARE FOUND BETWEEN THE EXISTING FIELD CONDITIONS AND THE SITE PLANS OR CONSTRUCTION DRAWINGS, WHENEVER THEY ARE FOUND, DURING ALL PHASES OF SITE WORK.
2. THE PRUNING OF SCREENING SHRUBS SHALL ALLOW FOR LATERAL GROWTH OF BRANCHES SO AS TO FORM A HEDGE.
3. ALL LANDSCAPE ISLANDS, BEDS AND LAWNS SHALL BE GRADED FOR POSITIVE DRAINAGE WITH NO LOW SPOTS ALLOWING WATER TO BE TRAPPED.
4. CONTRACTOR SHALL PLANT TREES AND SHRUBS 5 FEET FROM BACK OF CURB WHEN PLANTED PERPENDICULAR FROM PARKING SPACES.
5. WHEEL STOPS ARE REQUIRED IF LANDSCAPING CANNOT BE SET BACK 5 FEET.
6. CONTRACTOR SHALL INSTALL ALL SHRUBS IN MULCHED BEDS.
7. CONTRACTOR SHALL INSTALL ALL TREES IN MINIMUM 4'-6" DIA. MULCHED BEDS.
8. WHERE TREES AND SHRUBS ARE LOCATED TOGETHER IN LANDSCAPE BUFFERS, THE CONTRACTOR SHALL MULCH THE FULL WIDTH AND LENGTH OF THE BUFFER.
9. ALL UN-MULCHED AREAS OF THE SITE SHALL BE SEEDED WITH LAWN GRASS. GRASS SEED SELECTION SHALL BE SUBMITTED TO AND APPROVED BY THE LANDSCAPE ARCHITECT, PRIOR TO PURCHASE AND INSTALLATION.

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ISSUE/REVISIONS:

NO.	DESCRIPTION	DATE	BY
	CURRITUCK COUNTY SITE PLAN SUBMITTAL	7/1/25	

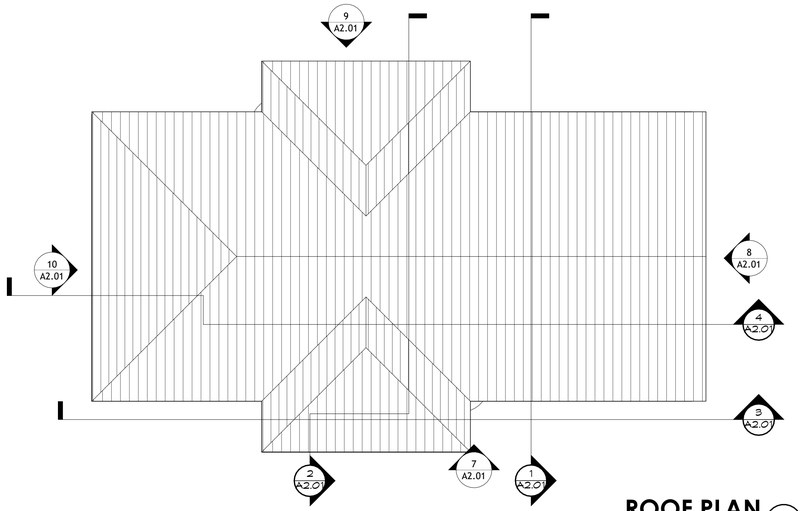
CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO ~ CURRITUCK COUNTY ~ NORTH CAROLINA

LANDSCAPE NOTES & DETAILS

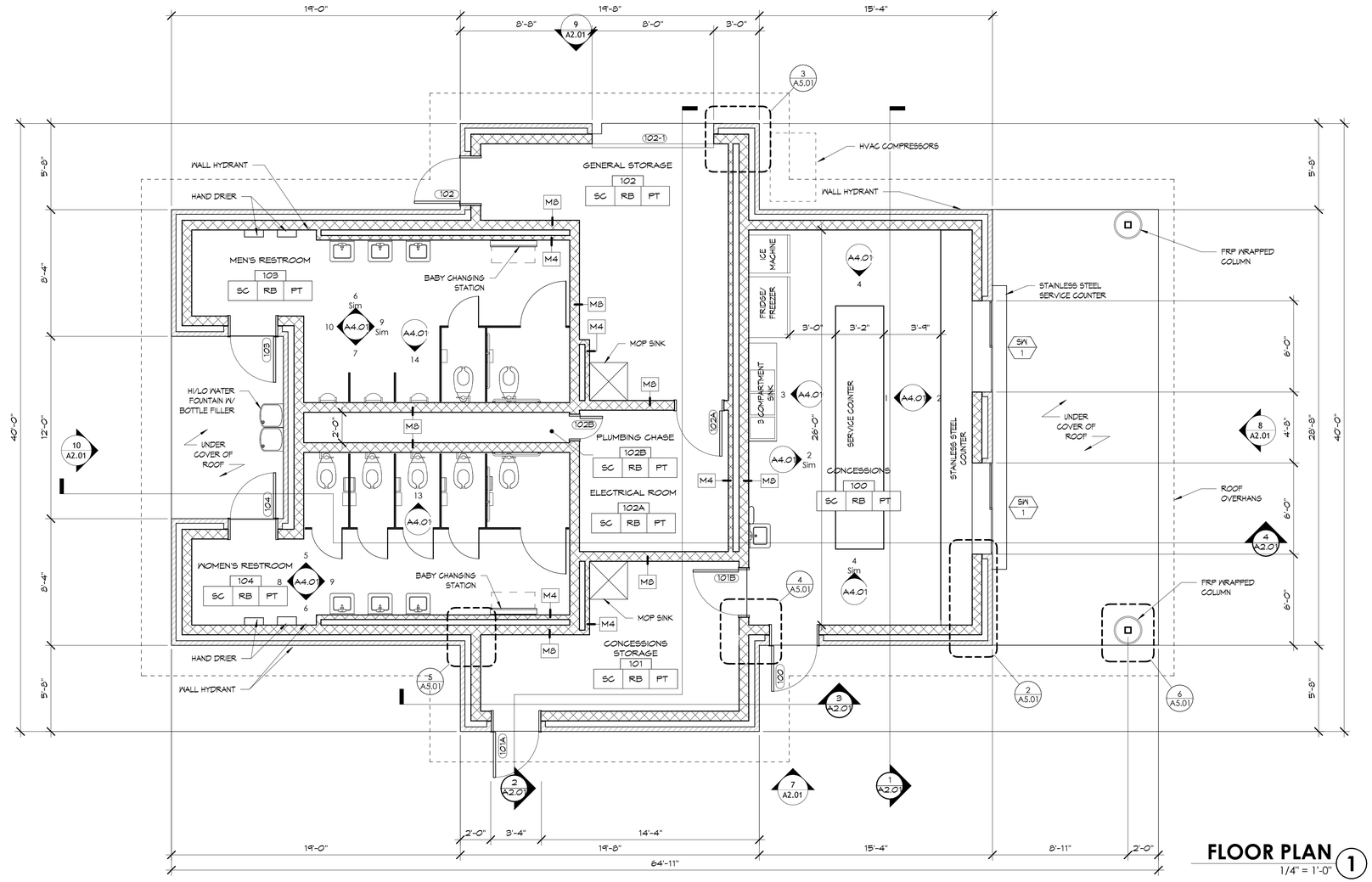
DESIGNED BY:	SBF
DRAWN BY:	SBF
CHECKED BY:	PRM
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	L2.02

G:\WORKSPACE_GIS FILES_CAD_PLOTS\2022109\2022109_CURRITUCK COUNTRY PARK PHASE III\DRAWINGS\L1.01 LANDSCAPE NOTES & DETAILS - 8:30:2025 4:54:30 PM - SBF

FINISH SHCEDULE						
	TAG	FINISH TYPE	MANUFACTURER	STYLE/COLOR	ALTERNATE MANUFACTURER	REMARKS
FLOOR	EP	EPOXY1	TRI SOLUTIONS		STONHARD, LATICRETE OR EQUIVILANT	
WALL	PT	PAINT	SHERWIN WILLIAMS		BENJAMINE MOORE, VALSPAR OR EQUIVILANT	
BASE	RB	RUBBER BASE	JOHNSONITE		ROPPE, MOHAWK OR EQUIVILANT	INSTALLED THROUGH SCOPE AREA, UNO
CASEWORK	PLAM	PLASTIC LAMINATE	FORMICA		WILSONT ART, PANOLAM OR EQUIVILANT	
	SST	STAINLESS STEEL SURFACE	CUSTOM FABRICATION			
CEILING	ACT	ACOUSTICAL CEILING TILE	USG			ARMSTRONG, CERTAINTEED OR EQUIVILANT
OTHER	TS	TRANSITION STRIP	HANSTONE			ADA COMPLIANT



ROOF PLAN 6
1/8" = 1'-0"



FLOOR PLAN 1
1/4" = 1'-0"

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CURRITUCK COMMUNITY PARK - PHASE III
CONCESSIONS / RESTROOM BUILDING
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BARCO, CURRITUCK COUNTY, NC 27971

DANIELLE J. HOFF REGISTERED ARCHITECT 15158 NORTH CAROLINA GREENVILLE, NC
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INTREPID Architecture PA 53628 North Carolina Registered GREENVILLE NC

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REVISIONS:

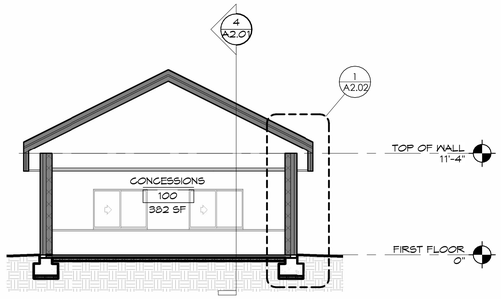
#	DESC:	DATE

DRAWN BY: DJH
PROJECT #: 22008
ISSUE DATE: 05/16/2025

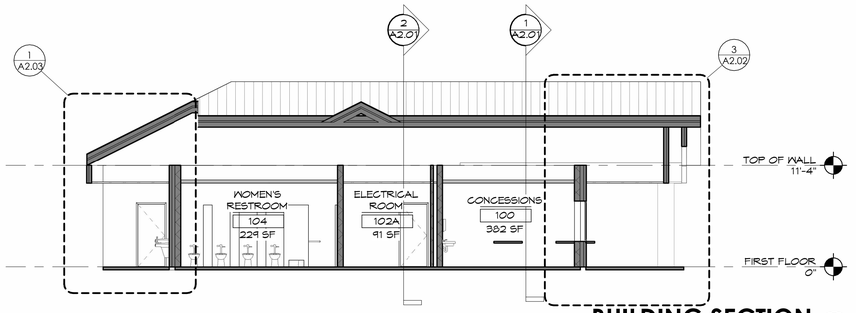
PHASE:
90% CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
FIRST FLOOR PLAN & ROOF PLAN

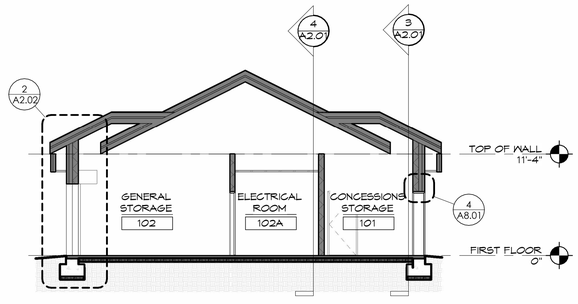
A1.01



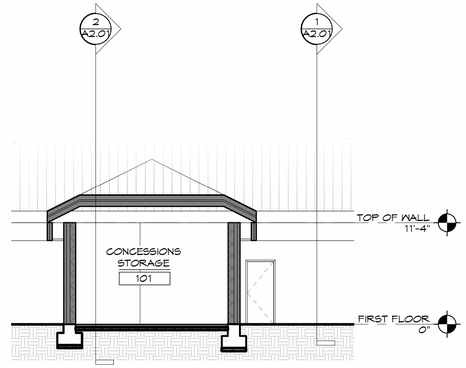
BUILDING SECTION 1
1/8" = 1'-0"



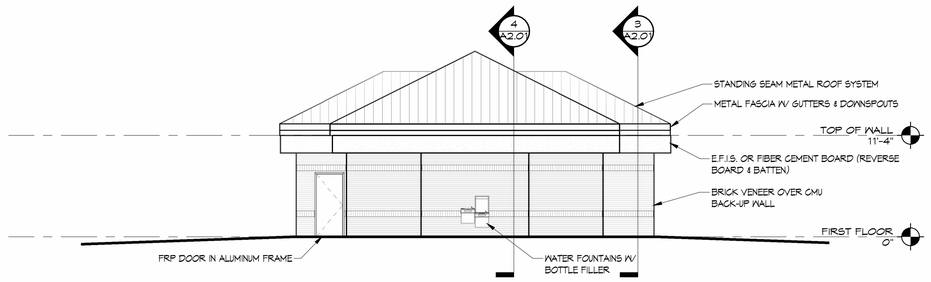
BUILDING SECTION 4
1/8" = 1'-0"



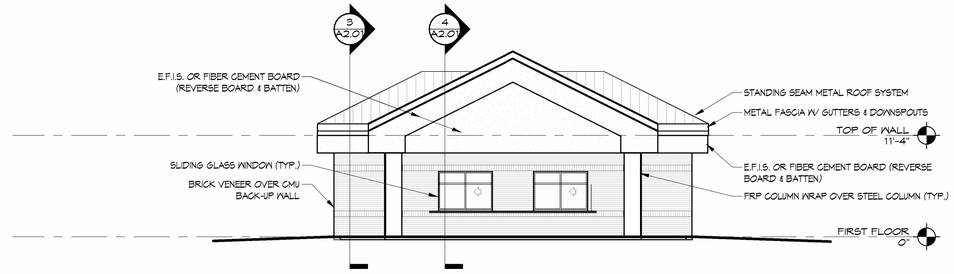
BUILDING SECTION 2
1/8" = 1'-0"



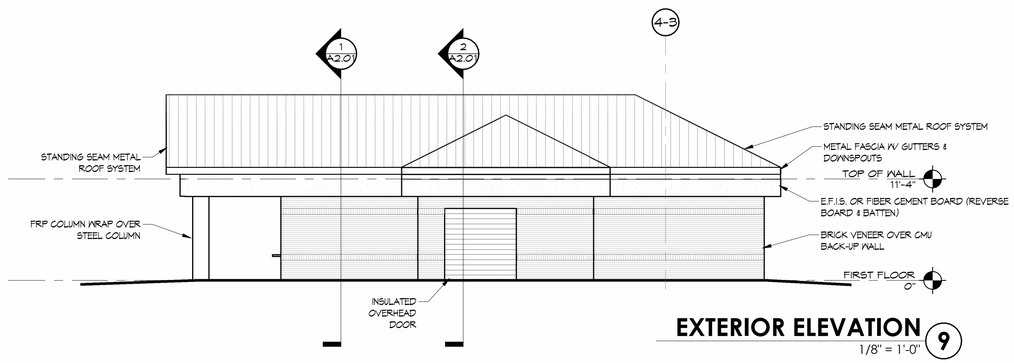
BUILDING SECTION 3
1/8" = 1'-0"



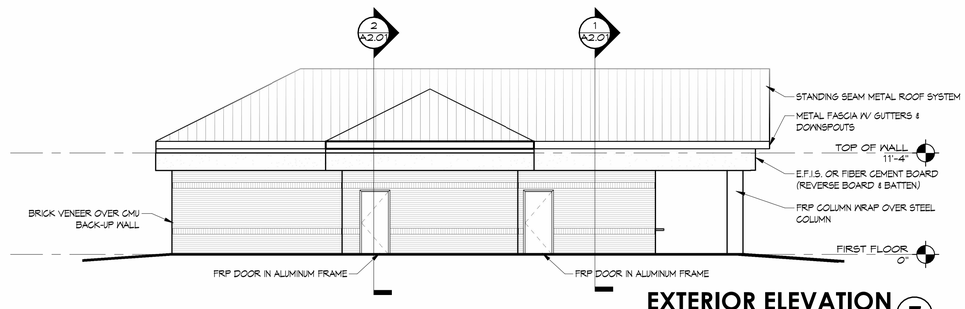
EXTERIOR ELEVATION 10
1/8" = 1'-0"



EXTERIOR ELEVATION 8
1/8" = 1'-0"



EXTERIOR ELEVATION 9
1/8" = 1'-0"



EXTERIOR ELEVATION 7
1/8" = 1'-0"

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CONCESSIONS / RESTROOM BUILDING
SHORTCUT ROAD
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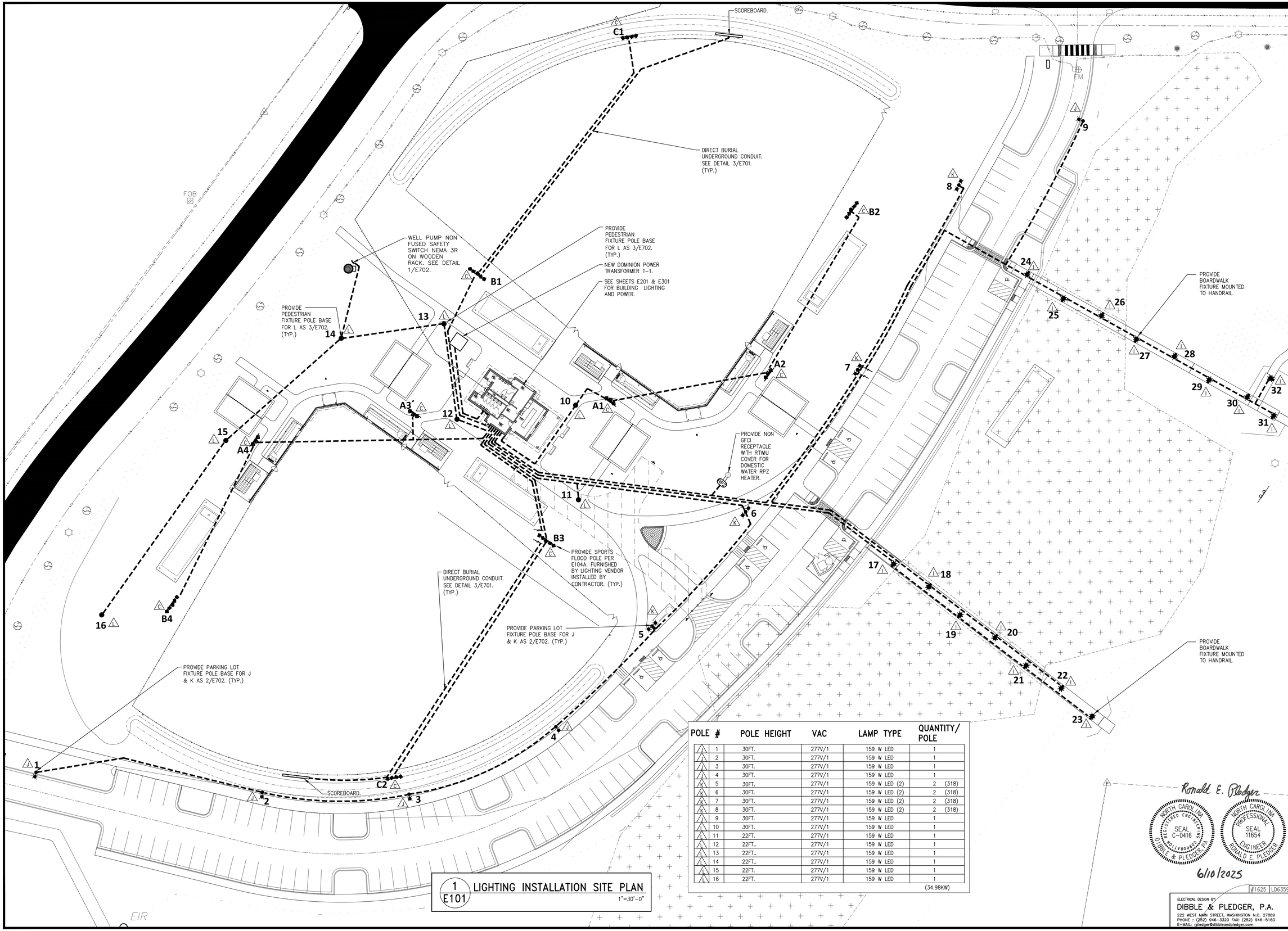
#	DESC:	DATE

DRAWN BY: DJH
PROJECT #: 22008
ISSUE DATE: 05/16/2025
PHASE:
90% CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
EXTERIOR ELEVATIONS & BUILDING SECTIONS

A2.01



POLE #		POLE HEIGHT	VAC	LAMP TYPE	QUANTITY/ POLE
J	1	30FT.	277V/1	159 W LED	1
J	2	30FT.	277V/1	159 W LED	1
J	3	30FT.	277V/1	159 W LED	1
J	4	30FT.	277V/1	159 W LED	1
K	5	30FT.	277V/1	159 W LED (2)	2 (318)
K	6	30FT.	277V/1	159 W LED (2)	2 (318)
K	7	30FT.	277V/1	159 W LED (2)	2 (318)
K	8	30FT.	277V/1	159 W LED (2)	2 (318)
J	9	30FT.	277V/1	159 W LED	1
J	10	30FT.	277V/1	159 W LED	1
J	11	22FT.	277V/1	159 W LED	1
J	12	22FT..	277V/1	159 W LED	1
J	13	22FT..	277V/1	159 W LED	1
J	14	22FT..	277V/1	159 W LED	1
J	15	22FT.	277V/1	159 W LED	1
J	16	22FT.	277V/1	159 W LED	1
					(34.98KW)

1 E101 LIGHTING INSTALLATION SITE PLAN
1"=30'-0"

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NO.	DESCRIPTION	DATE	BY
	60% DD SET	1/14/25	

CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

LIGHTING & POWER SITE PLANS BALL FIELDS & PARKING LOT

Ronald E. Pledger

NORTH CAROLINA REGISTERED ENGINEERING CORPORATION SEAL C-0416 DIBBLE & PLEDGER, PA

NORTH CAROLINA PROFESSIONAL SEAL 11654 ENGINEER RONALD E PLEDGER

6/10/2025

DESIGNED BY:	REP
DRAWN BY:	WAW
CHECKED BY:	REP
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	E101

#1625 LD6359

ELECTRICAL DESIGN BY:
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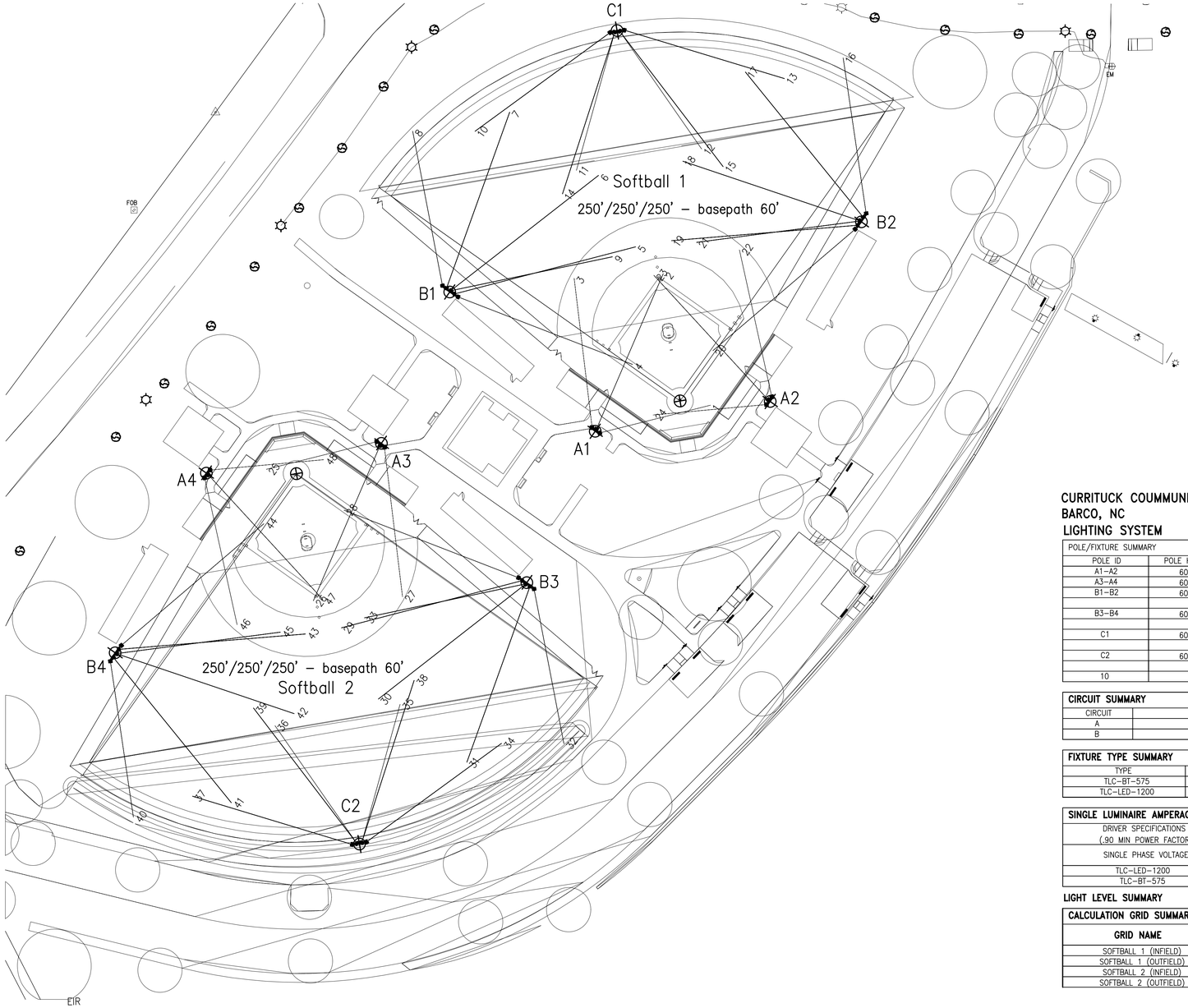

1 E102 LIGHTING POINT BY POINT SITE PLAN (FIELD #1 & FIELD #2) 1"=40'-0"

EQUIPMENT LAYOUT

INCLUDES:
- SOFTBALL 1
- SOFTBALL 2

ELECTRICAL SYSTEM REQUIREMENTS: REFER TO AMPERAGE DRAW CHART AND/OR THE "MUSCO CONTROL SYSTEM SUMMARY" FOR ELECTRICAL SIZING.

INSTALLATION REQUIREMENTS: RESULTS ASSUME ± 3% NOMINAL VOLTAGE AT LINE SIDE OF THE DRIVER AND STRUCTURES LOCATED WITHIN 3 FEET (1M) OF DESIGN LOCATIONS.

EQUIPMENT LIST FOR AREAS SHOWN

POLE				LUMINAIRES		
QTY	LOCAT.	SIZE	GRADE ELEV.	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/ POLE
4	A1–A4	60'	–	60'	TLC–LED–1200	3
4	B1–B4	60'	-	60' 15.5'	TLC–LED–1200 TLC–BT–575	5 1
2	C1–C2	60'	-	60' 15.5'	TLC–LED–1200 TLC–BT–575	4 2
10	Totals					48

SINGLE LUMINAIRE AMPERAGE DRAW CHART

DRIVER SPECIFICATIONS (.90 MIN POWER FACTOR)	LINE AMPERAGE PER LUMINAIRE (MAX DRAW)						
SINGLE PHASE VOLTAGE	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC–LED–1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC–BT–575	3.3	3.2	2.9	2.5	2.0	1.8	1.5

CURRITUCK COUMMUNITY PARK
BARCO, NC
LIGHTING SYSTEM

POLE/FIXTURE SUMMARY

POLE ID	POLE HEIGHT	MTG HEIGHT	Fixture Qty	LUMINAIRE TYPE	LOAD	CIRCUIT
A1–A2	60'	60'	3	TLC–LED–1200	3.51 kW	A
A3–A4	60'	60'	3	TLC–LED–1200	3.51 kW	B
B1–B2	60'	60'	5	TLC–LED–1200	5.85 kW	A
		16'	1	TLC–BT–575	0.57 kW	A
B3–B4	60'	60'	5	TLC–LED–1200	5.85 kW	B
		16'	1	TLC–BT–575	0.57 kW	B
C1	60'	60'	4	TLC–LED–1200	4.68 kW	A
		16'	2	TLC–BT–575	1.15 kW	A
C2	60'	60'	4	TLC–LED–1200	4.68 kW	B
		16'	2	TLC–BT–575	1.15 kW	B
10			48		51.40 kW	

CIRCUIT SUMMARY

CIRCUIT	DESCRIPTION	LOAD	FIXTURE QTY
A	SOFTBALL 1	25.70 kW	24
B	SOFTBALL 2	25.70 kW	24

FIXTURE TYPE SUMMARY

TYPE	SOURCE	WATTAGE	LUMENS	L90	L80	L70	QUANTITY
TLC–BT–575	LED 5700K – 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC–LED–1200	LED 5700K – 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	40

SINGLE LUMINAIRE AMPERAGE DRAW CHART

DRIVER SPECIFICATIONS (.90 MIN POWER FACTOR)	LINE AMPERAGE PER LUMINAIRE (MAX DRAW)						
SINGLE PHASE VOLTAGE	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC–LED–1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC–BT–575	3.3	3.2	2.9	2.5	2.0	1.8	1.5

LIGHT LEVEL SUMMARY

CALCULATION GRID SUMMARY

GRID NAME	CALCULATION METRIC	ILLUMINATION AVE					CIRCUITS	FIXTURE QTY
		AVE	MIN	MAX	MAX/MIN	AVE/MIN		
SOFTBALL 1 (INFIELD)	HORIZONTAL ILLUMINANCE	52.92	38.66	63.89	1.65	1.37	A	24
SOFTBALL 1 (OUTFIELD)	HORIZONTAL ILLUMINANCE	34.22	22.17	45.08	2.03	1.54	A	24
SOFTBALL 2 (INFIELD)	HORIZONTAL ILLUMINANCE	52.92	38.66	63.89	1.65	1.37	B	24
SOFTBALL 2 (OUTFIELD)	HORIZONTAL ILLUMINANCE	34.22	22.17	45.08	2.03	1.54	B	24

Ronald E. Pledger

NORTH CAROLINA REGISTERED ENGINEERING CORPORATION SEAL C-0416 DIBBLE & PLEDGER, P.A.

NORTH CAROLINA PROFESSIONAL SEAL 11654 ENGINEER RONALD E. PLEDGER

6/10/2025

#1625 | LD6359

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	60% DD SET	1/14/25	

CURRITUCK COUNTY
CURRITUCK COMMUNITY PARK, PHASE III
SHORTCUT RD., BARCO – CURRITUCK COUNTY – NORTH CAROLINA
SPORTS LIGHTING FIELD 1 & FIELD 2 POINT BY POINT

DESIGNED BY:	REP
DRAWN BY:	WAW
CHECKED BY:	REP
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	E102

	LUMINAIRE LOCATION SUMMARY						
			INSERTION POINT				
LUMNO	LUMNO	LABEL	X	Y	Z	ORIENT	TILT
1		CC21x2-72L-700-5K7-3_1_1way	507.241	272.944	33	257.299	0
2		CC21x2-72L-700-5K7-4W	674.913	248.22	33	265.417	0
3		CC21x2-72L-700-5K7-4W	785.848	250.052	33	287.234	0
4		CC21x2-72L-700-5K7-4W	897.022	301.865	33	309.471	0
5		CC21x2-72L-700-5K7-4W_1	974.299	386.431	33	45.49	0
6		CC21x2-72L-700-5K7-4W_1	1036.25	466	33	50.382	0
7		CC21x2-72L-700-5K7-4W_1	1119.476	571.351	33	56.931	0
8		CC21x2-72L-700-5K7-4W_1	1195	709.25	33	63.1	0
9		CC21x2-72L-700-5K7-3_1_1way	1288.75	756.5	33	159.677	0
10		CC17x2-36L-730-4K7-3	909.25	545	24	53.323	0
11		CC17x2-36L-730-4K7-3	909.25	475.75	24	234.104	0
12		CC17x2-36L-730-4K7-3	820.949	534.569	24	234.663	0
13		CC17x2-36L-730-4K7-3	811.396	605.763	24	54.711	0
14		CC17x2-36L-730-4K7-3	734.771	595.098	24	234.083	0
15		CC17x2-36L-730-4K7-3	648.466	518.699	24	320.764	0
16		CC17x2-36L-730-4K7-3	556	388.75	24	332.945	0
17		WTA-27-VS-CP-BR-PC (11W, 4000	1144.311	424.639	3.5	54.664	0
18		WTA-27-VS-CP-BR-PC (11W, 4000	1173.818	411.424	3.5	234.75	0
19		WTA-27-VS-CP-BR-PC (11W, 4000	1194.483	386.949	3.5	51.791	0
20		WTA-27-VS-CP-BR-PC (11W, 4000	1223.168	373.206	3.5	227.562	0
21		WTA-27-VS-CP-BR-PC (11W, 4000	1243.748	350.293	3.5	52.055	0
22		WTA-27-VS-CP-BR-PC (11W, 4000	1273.589	334.134	3.5	231.876	0
23		WTA-27-VS-CP-BR-PC (11W, 4000	1293.39	311.814	3.5	51.815	0
24		WTA-27-VS-CP-BR-PC (11W, 4000	1271.376	623.477	3.5	60.327	0
25		WTA-27-VS-CP-BR-PC (11W, 4000	1306	613.25	3.5	242.021	0
26		WTA-27-VS-CP-BR-PC (11W, 4000	1326.969	592.411	3.5	66.743	0
27		WTA-27-VS-CP-BR-PC (11W, 4000	1357.452	583.137	3.5	241.212	0
28		WTA-27-VS-CP-BR-PC (11W, 4000	1381.005	561.77	3.5	62.259	0
29		WTA-27-VS-CP-BR-PC (11W, 4000	1411.275	551.353	3.5	243.284	0
30		WTA-27-VS-CP-BR-PC (11W, 4000	1435.149	532.659	3.5	61.188	0
31		WTA-27-VS-CP-BR-PC (11W, 4000	1425.542	576.207	3.5	316.831	0
32		WTA-27-VS-CP-BR-PC (11W, 4000	1448.467	592.156	3.5	134.697	0

LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	ARRANGEMENT	DESCRIPTION	TAG	LLF	LUMINAIRE LUMENS	LUMINAIRE WATTS	TOTAL WATTS
	7	CC17x2-36L-730-4K7-3	SINGLE	CC17x2-36L-730-4K7-3		1.000	9297	84.52	591.64
	16	WTA-27-VS-CP-BR-PC (11W, 4000	SINGLE	WTA-27-VS-CP-BR-PC (11W, 4000K)		1.000	1700	10.57	169.12
	2	CC21x2-72L-700-5K7-3_1_1way	SINGLE	1way		1.000	17871	158.56	317.12
	4	CC21x2-72L-700-5K7-4W_1	BACK-BACK	2way		1.000	18663	158.6	1268.8
	3	CC21x2-72L-700-5K7-4W	SINGLE	CC21x2-72L-700-5K7-4W		1.000	18663	158.6	475.8

1 E105 LIGHTING POINT BY POINT SITE PLAN (PEDESTRIAN & PARKING LOT) 1"=30'-0"

Ronald E. Pledger

NORTH CAROLINA REGISTERED ENGINEERING FIRM SEAL C-0416 DIBBLE & PLEDGER, P.A.

NORTH CAROLINA PROFESSIONAL SEAL 11654 ENGINEER RONALD E PLEDGER

6/10/2025

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CURRITUCK COUNTY

CURRITUCK COMMUNITY PARK, PHASE III

SHORTCUT RD., BARCO - CURRITUCK COUNTY - NORTH CAROLINA

PEDESTRIAN & PARKING LOT LIGHTING POINT BY POINT

DESIGNED BY:	REP
DRAWN BY:	WAW
CHECKED BY:	REP
PROJECT No.	2022109
DRAWING No.	W-4080
SCALE:	AS SHOWN
SHEET No.	E105