

CONSTRUCTION DRAWINGS FOR

MOYOCK DENTAL OFFICE

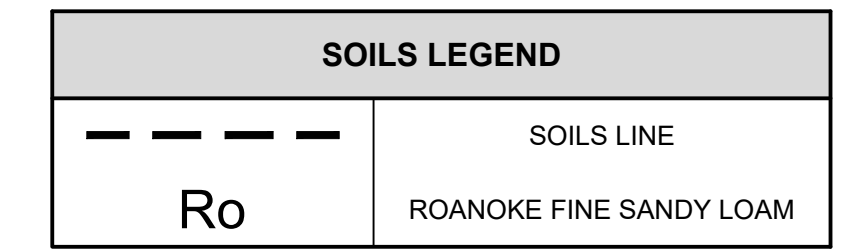
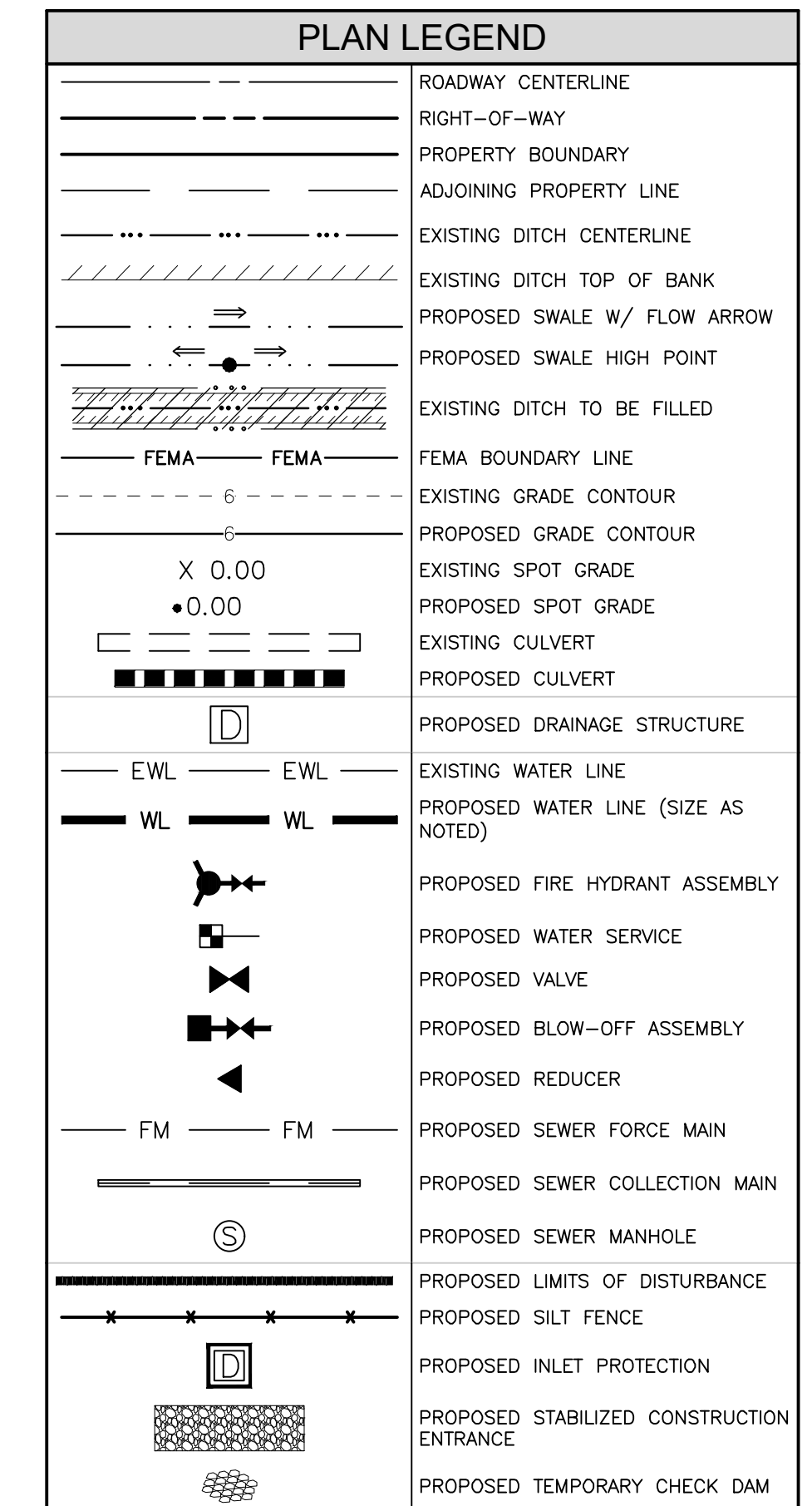
MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

- GENERAL NOTES:**
- PROJECT NAME: MOYOCK DENTAL OFFICE
 - OWNER/APPLICANT: GCG REALTY, LLC
200 CARMICHAEL WAY, SUITE 600
CHESAPEAKE VA, 23322
 - PROPERTY DATA:
PARCEL ID# 015B-0000-016-0000
ADDRESS: 100 CURRITUCK COMMERCIAL DRIVE, MOYOCK, NC 27958
RECORDED REFERENCES: D.B. 1741, PG. 690; P.C. G, SL. 24
PROPERTY ZONING: GB
 - F.I.R.M. DATA:
THE SUBJECT PROPERTY IS LOCATED IN F.I.R.M. ZONE "X". REFERENCE F.I.R.M. PANEL # 3721803100 K, EFFECTIVE DATE DECEMBER 21, 2018.
 - THERE ARE NO KNOWN JURISDICTIONAL WETLANDS ON THIS PROPERTY.
 - PROPOSED COMMERCIAL DEVELOPMENT WITH A SINGLE BUILDING PROVIDING A MIXED USE OF OFFICE AND RETAIL SPACE. SEE BUILDING PLANS FOR FURTHER DETAILS OF USE AREAS.
 - LOT COVERAGE (BUA):
• PARCEL AREA: 55,827 SF (1.28 AC.)
• PROPOSED IMPERVIOUS AREA:
BUILDING UNDER ROOF: 11,323 SF
PARKING: 23,218 SF (INCLUDES POSSIBLE FUTURE PARKING)
SIDEWALKS: 1,571 SF
DUMPSTER: 180 SF
TOTAL: 36,272 SF (64.97%)
• CURRITUCK COUNTY ALLOWANCE: 36,288 SF (65%)
• NCDEQ PERMIT ALLOWANCE: 44,662 SF (80%)
 - TOTAL PROPOSED DISTURBED AREA: 1.26 AC.
 - PARKING:
• REQUIRED:
OFFICE - 1 SPACE/300 SF = 4,889/300 = 16.3 SPACES
RETAIL - 1 SPACE/300 SF = 5,182/300 = 17.3 SPACES
TOTAL = 33.6 SPACES
• PROVIDED:
42 SPACES, INCLUDING 3 A.D.A. SPACES [125% OF REQ. PER 5.13.C.(1)]
• THE PLAN ALSO PROPOSES A TOTAL OF (10) POSSIBLE FUTURE PARKING SPACES. IF NEEDED, AN ALTERNATIVE PARKING PLAN PROVING THE NEED FOR THESE SPACES MUST FIRST BE APPROVED. SUCH A PLAN MAY BE PROVIDED IN THE FUTURE WHEN TENANT USES AND PARKING DEMANDS ARE KNOWN. PARKING SURFACES SHALL BE IN ACCORDANCE WITH THE ORDINANCE.
 - UTILITIES:
• WATER SERVICE TO BE PROVIDED BY CURRITUCK COUNTY MAINLAND WATER SYSTEM.
• WASTEWATER TO BE PROVIDED BY CURRITUCK COUNTY SEWER AUTHORITY.
• ALL UTILITIES ARE TO BE INSTALLED UNDERGROUND.
 - ALL SIGNAGE SHALL COMPLY WITH COUNTY STANDARDS AS PRESCRIBED UNDER 5.12 OF THE U.D.O. A SEPARATE SIGNAGE PLAN MAY BE REQUIRED FOR APPROVAL PRIOR TO INSTALLATION.

Sheet
Number

Sheet Title

1	COVER SHEET, DEVELOPMENT NOTES & SITE LOCATION
2	EXISTING SITE CONDITIONS & FEATURES MAP
3	SITE OVERVIEW AND UTILITY PLAN
4	GRADING, DRAINAGE, & STORMWATER MANAGEMENT PLAN
5	EROSION & SEDIMENT CONTROL PLAN
6	LANDSCAPING, BUFFERING & EXTERIOR LIGHTING PLAN
7	TYP. PAVEMENT & DRAINAGE CONSTRUCTION DETAILS
8	TYP. EROSION CONTROL NOTES & CONSTRUCTION DETAILS
9	NCG01 SELF-INSPECTION, RECORDKEEPING & REPORTING
10	NCG01 GROUND STABILIZATION AND MATERIALS HANDLING



NOTE:
EXISTING SITE INFORMATION DESCRIBED HEREON IS BELIEVED TO BE ACCURATE. HOWEVER, BPG INC. MAKES NO WARRANTY AS TO THE ACCURACY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THIS INFORMATION BEFORE RELYING ON IT. THE CONTENT OF THESE DOCUMENTS MAY ALSO INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. IF SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE SCHEDULED WORK AND MAY CONTINUE AFTER AN AUTHORIZATION TO PROCEED HAS BEEN GRANTED.

THE FOLLOWING PERMITS ARE REQUIRED PRIOR TO PROJECT CONSTRUCTION:

PERMIT	AGENCY	REFERENCE NUMBER	DATE OF ISSUANCE
SEDIMENTATION AND EROSION CONTROL PERMIT	N.C.D.E.Q. - DIVISION OF LAND RESOURCES		
STORMWATER MANAGEMENT PERMIT	N.C.D.E.Q. - DIVISION OF LAND RESOURCES	SW7980513	11/1/2007
DRIVEWAY PERMIT	N.C.D.O.T.		
CURRITUCK COUNTY CONSTRUCTION AUTHORIZATION	CURRITUCK COUNTY PLANNING STAFF		

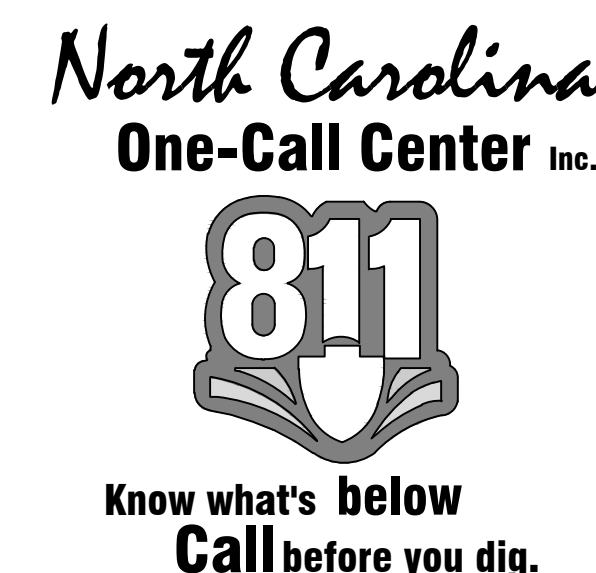
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STORMWATER CERTIFICATE

I, _____ OWNER/AGENT HEREBY CERTIFY THE INFORMATION INCLUDED ON THIS AND ATTACHED PAGES IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

ON THE PLAN ENTITLED, CONSTRUCTION DRAWINGS FOR MOYOCK DENTAL OFFICE - GRADING, DRAINAGE AND STORMWATER MANAGEMENT PLAN, STORMWATER DRAINAGE IMPROVEMENTS SHALL BE INSTALLED ACCORDING TO THESE PLANS AND SPECIFICATIONS AND APPROVED BY CURRITUCK COUNTY. YEARLY INSPECTIONS ARE REQUIRED AS PART OF THE STORMWATER PLAN. THE OWNER IS RESPONSIBLE FOR ALL MAINTENANCE REQUIRED. CURRITUCK COUNTY ASSUMES NO RESPONSIBILITY FOR THE DESIGN, MAINTENANCE, OR PERFORMANCE OF THE STORMWATER IMPROVEMENTS.

DATE _____ OWNER/AGENT _____



SURVEY LEGEND

SCM	SET CONCRETE MONUMENT
ECM	EXISTING CONCRETE MONUMENT
SHR	SET IRON ROD
EIR	EXISTING IRON ROD
EIP	EXISTING IRON PIPE
CP	CALCULATED POINT
M.B.L.	MAXIMUM BUILDING LIMIT
N.T.S.	NOT TO SCALE
P.C.	PLAT CABINET
D.B.	DEED BOOK
SL	SLIDE
SF	SQUARE FEET
AC	ACRES

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BISSELL
PROFESSIONAL GROUP
Engineers, Planners, Surveyors
and Environmental Specialists

COVER SHEET, DEVELOPMENT NOTES AND SITE LOCATION

MOYOCK DENTAL OFFICE
NORTH CAROLINA
CURRITUCK COUNTY
MOYOCK TOWNSHIP

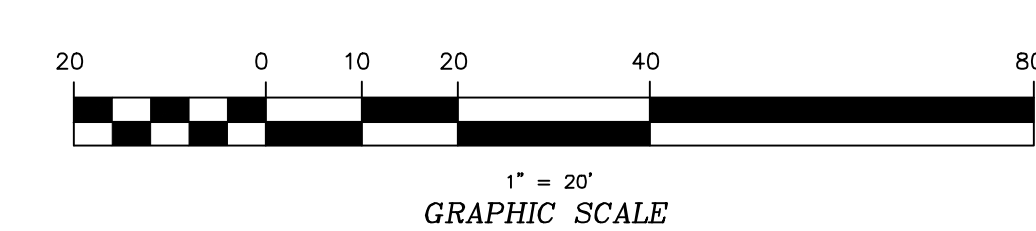
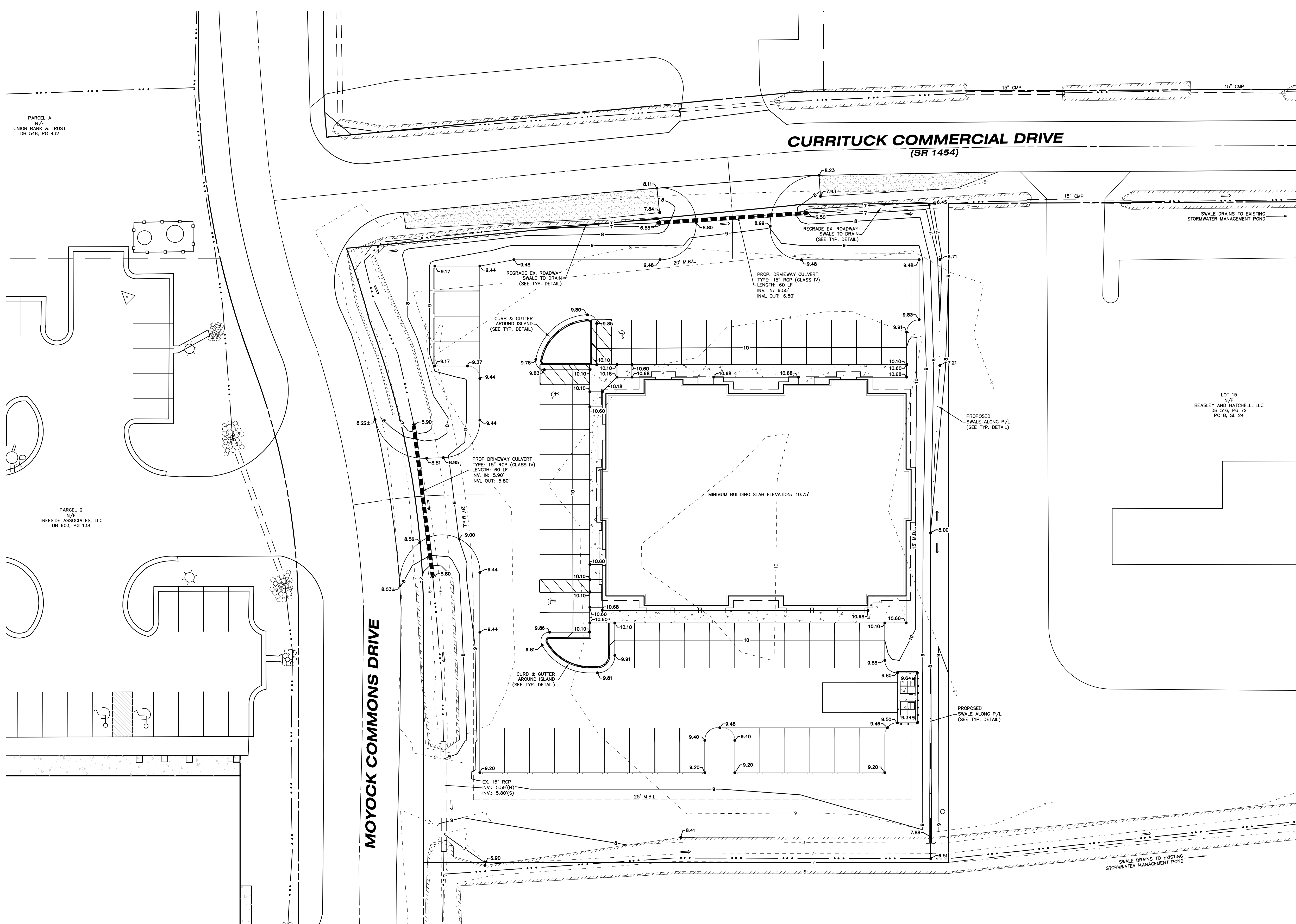
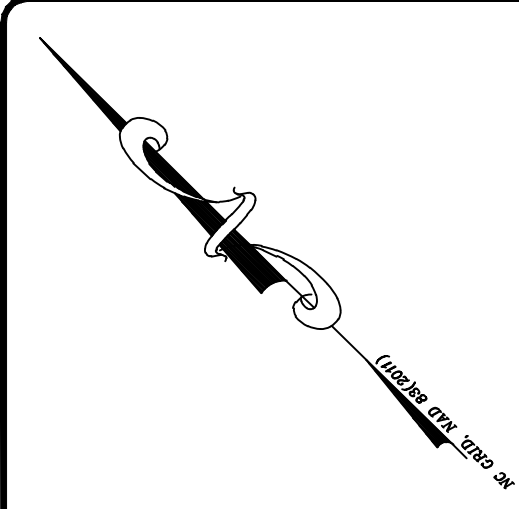
COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS

NO.	DATE	DESCRIPTION

DATE: 08-22-23 SCALE: NO SCALE
DESIGNED: BPG CHECKED: MSB
DRAWN: BPG APPROVED: BPG
KFW/DMK BPG
SHEET: 1 OF 10
CAD FILE: 342700B1
PROJECT NO: 3427

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NO.	DATE	DESCRIPTION	BY

DATE: 08-22-23 SCALE: 1" = 20'

DESIGNED: BPG CHECKED: MSB

DRAWN: KFW/DMK APPROVED: BPG

SHEET: 4 OF 10

CAD FILE: 342700B1

PROJECT NO: 3427

PROJECT: **MOYOCK DENTAL OFFICE**
NORTH CAROLINA
CURRITUCK COUNTY
MOYOCK TOWNSHIP

GRADING, DRAINAGE &
STORMWATER MANAGEMENT PLAN

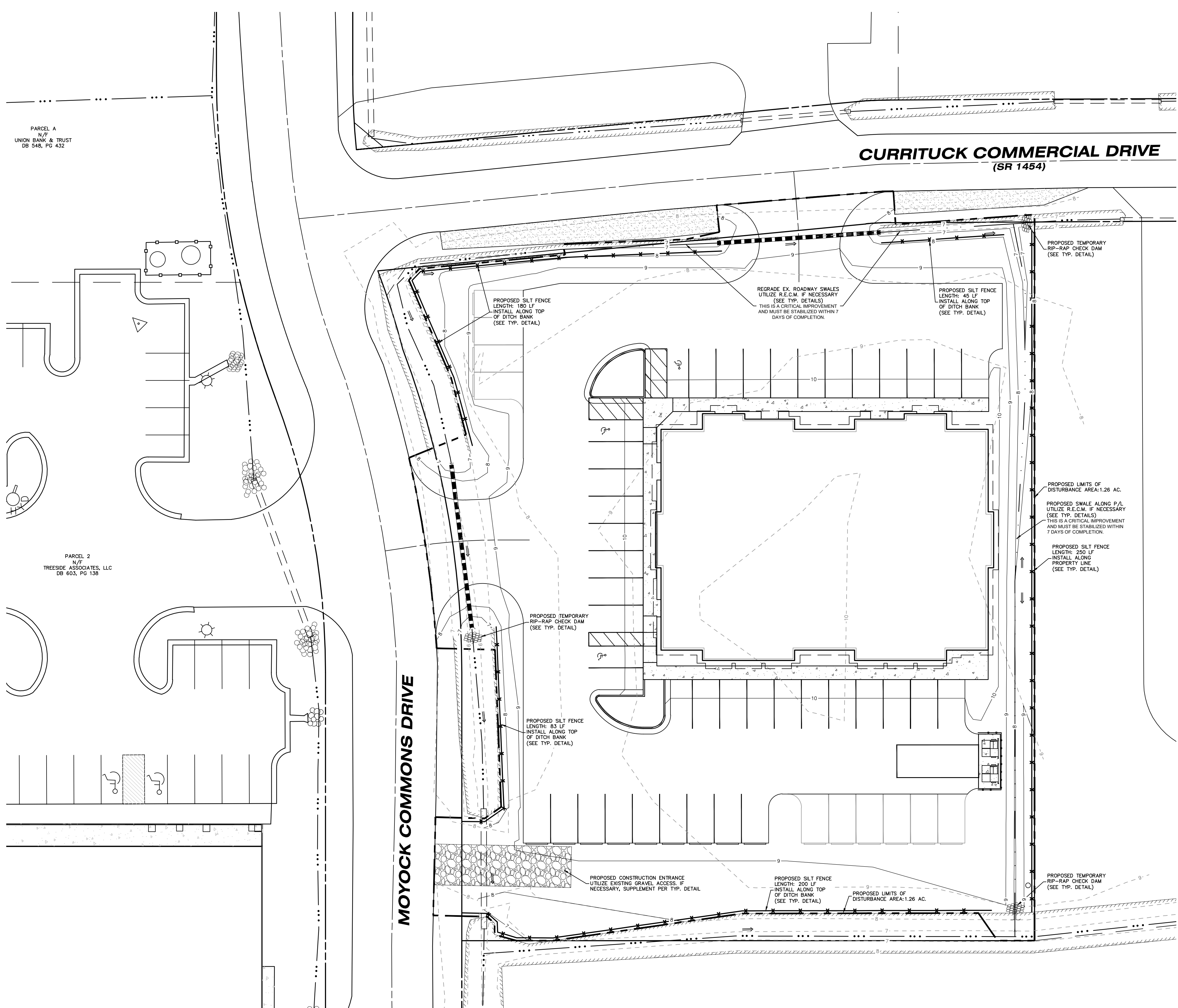
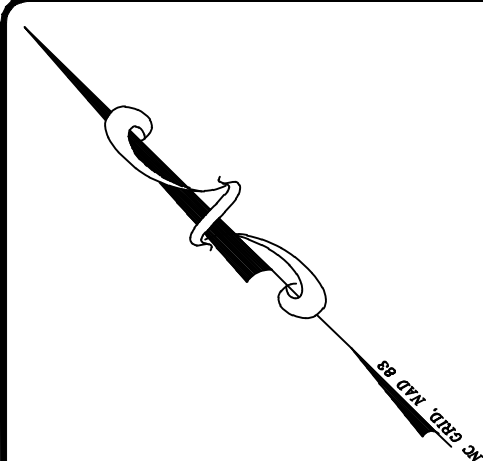
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FAX (919) 252-1750

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PARCEL A
N/7
UNION BANK & TRUST
DB 548, PG 432

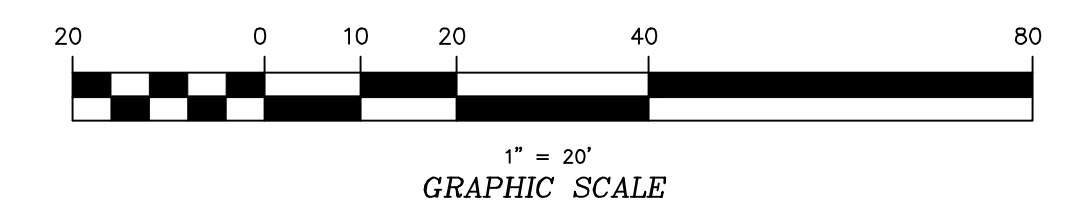
PARCEL 2
N/7
TREESIDE ASSOCIATES, LLC
DB 603, PG 138

CURRITUCK COMMERCIAL DRIVE
(SR 1454)

MOYOCK COMMONS DRIVE

- SEDIMENTATION AND EROSION CONTROL NOTES**
- THESE NOTES ARE IN ADDITION TO THE SEDIMENTATION AND EROSION CONTROL NOTES AND DETAILS PROVIDED ON SHEETS 8 & 10.
 - ALL MATERIALS EXCAVATED OVER THE COURSE OF CONSTRUCTION SHALL REMAIN ON THE PROJECT SITE. THIS MATERIAL SHALL BE USED FOR CONSTRUCTION OF PARKING AND BUILDING SITE AND PREPARING THE SITE AS ILLUSTRATED ON THE GRADING PLANS. IF NECESSARY, EXCAVATED MATERIALS REMAINING AT THE END OF CONSTRUCTION MAY BE DISPOSED OF OFF-SITE AT AN APPROVED AND PERMITTED BORROW PIT OR PLACED BACK INTO POND.
 - OFF-SITE BORROW, IF NECESSARY, MUST BE OBTAINED FROM AN APPROVED AND PERMITTED BORROW PIT OR LAND DISTURBANCE.
 - THIS PROJECT IS ANTICIPATED TO BE CONSTRUCTED IN A SINGLE PHASE.
 - NO GREATER THAN 1.26 ACRES OF LAND SHALL BE DISTURBED AT ONE TIME. CONSTRUCTION AND STABILIZATION ACTIVITIES SHALL, TO THE MAXIMUM EXTENT PRACTICABLE, BE SCHEDULED ACCORDINGLY.
 - THE FOLLOWING PROVIDES AN ESTIMATED MATERIAL BALANCE OF THE PROJECT:
APPROXIMATE CUT VOLUME: 100 CY±
APPROXIMATE FILL VOLUME: 1,000 CY±
*THE VALUES ARE GROSS ESTIMATES AND ARE PROVIDED FOR PERMITTING PURPOSES ONLY. COMPACTION AND SUITABILITY OF SOILS FOR USE IN CONSTRUCTION ARE NOT CONSIDERED AND ADDITIONAL MATERIAL MAY BE NECESSARY. CONTRACTORS SHALL NOT RELY UPON THESE ESTIMATES AND SHOULD DETERMINE THEIR OWN MATERIAL NEEDED FOR CONSTRUCTION.

- CONSTRUCTION SEQUENCE**
- UTILIZE EXISTING GRAVEL ACCESS OFF MOYOCK COMMONS DRIVE FOR CONSTRUCTION ENTRANCE. SUPPLEMENT WITH ADDITION GRAVEL AS NEEDED TO ACHIEVE STANDARD DETAIL.
 - INSTALL SILT FENCE WHERE SPECIFIED.
 - INSTALL TEMPORARY CHECK DAMS IN EXISTING DITCHES WHERE SPECIFIED.
 - CONSTRUCT SWALE ALONG EASTERN PROPERTY BOUNDARY AS SPECIFIED. THIS IS A CRITICAL IMPROVEMENT AND MUST BE STABILIZED WITHIN 7 DAYS OF COMPLETION.
 - INSTALL TEMPORARY CHECK DAMS IN NEW SWALE WHERE SPECIFIED AND NEEDED.
 - INSTALL DRIVEWAY GULLVERTS AND MODIFY EXISTING ROADWAY SWALES TO DRAIN. THIS IS A CRITICAL IMPROVEMENT AND MUST BE STABILIZED WITHIN 7 DAYS OF COMPLETION.
 - CONDUCT GENERAL CONSTRUCTION ACTIVITIES FOR INSTALLATION OF PROPOSED BUILDING, PARKING, DRAINAGE AND UTILITY IMPROVEMENTS.
 - DURING THE COURSE OF CONSTRUCTION, MAINTAIN SILT FENCE, TEMPORARY CHECK DAMS AND ANY ADDITIONAL PROTECTION MEASURES AS NECESSARY AND WHERE NOTED.
 - PERMANENTLY SEED AND STABILIZED ALL DISTURBED AREAS.
 - AFTER STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.



FINAL DRAWING
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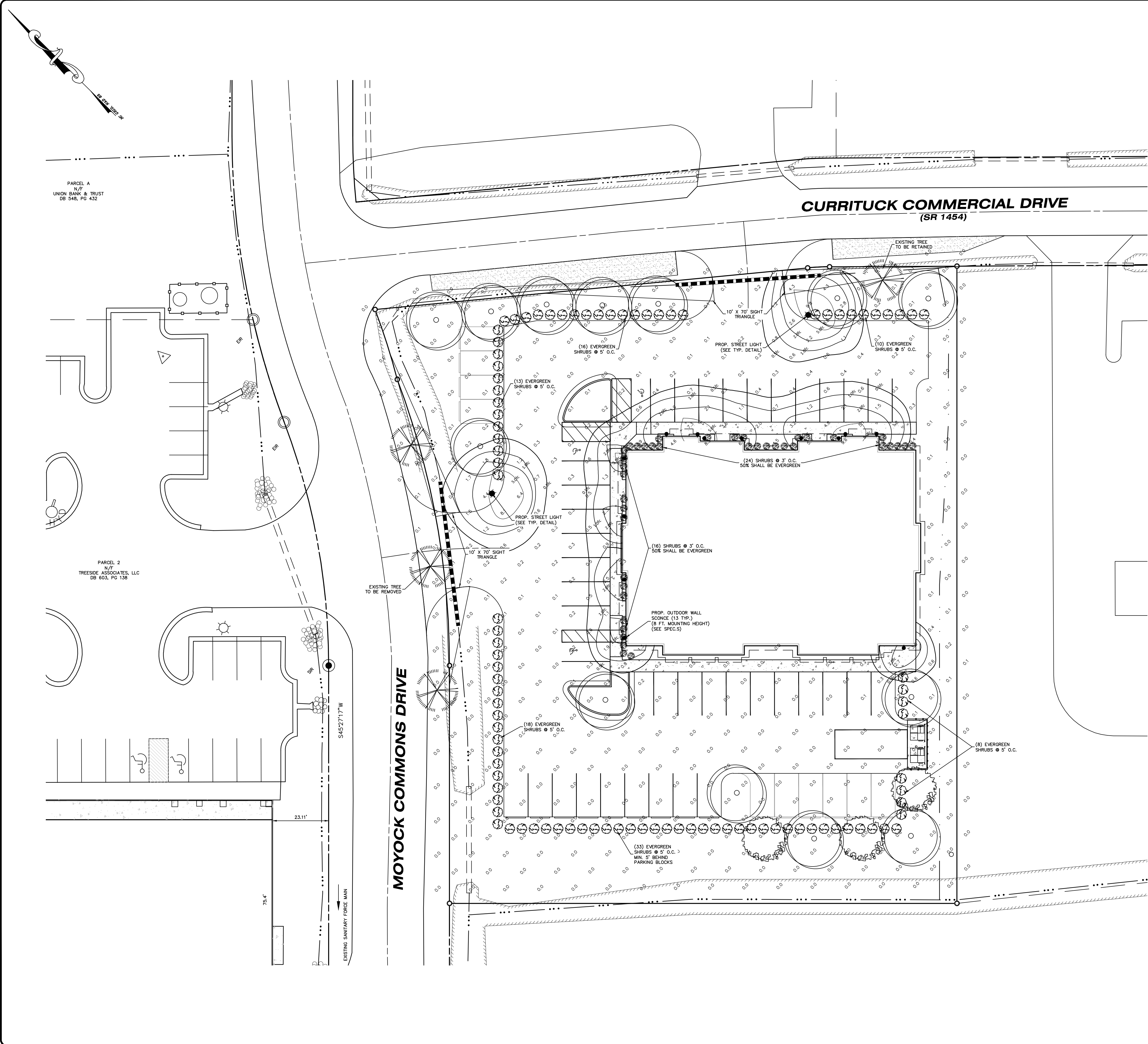
EROSION & SEDIMENT CONTROL PLAN
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MOYOCK DENTAL OFFICE
 NORTH CAROLINA
 CURRITUCK COUNTY
 MOYOCK TOWNSHIP
COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS		NO.	DATE	DESCRIPTION	BY

DATE: 08-22-23	SCALE: 1" = 20'
DRAWN: BPG	CHECKED: MSB
APPROVED: KTFW/DMK	BPG
SHEET: 5 OF 10	CAD FILE: 342700B1
PROJECT NO: 3427	

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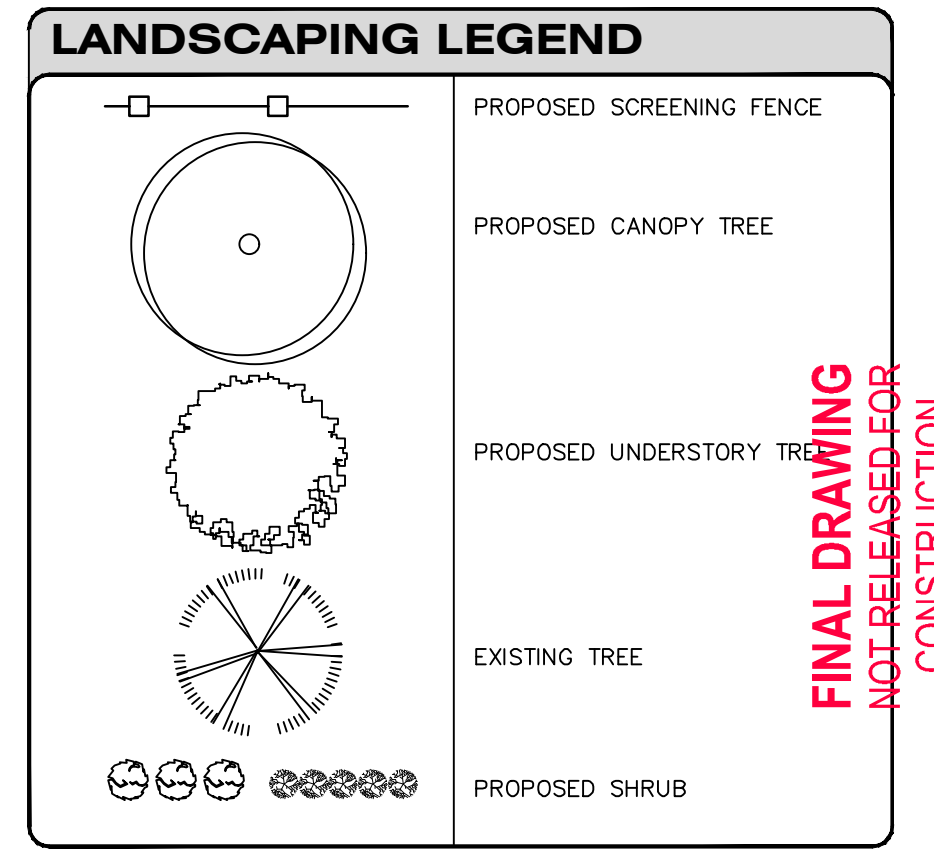
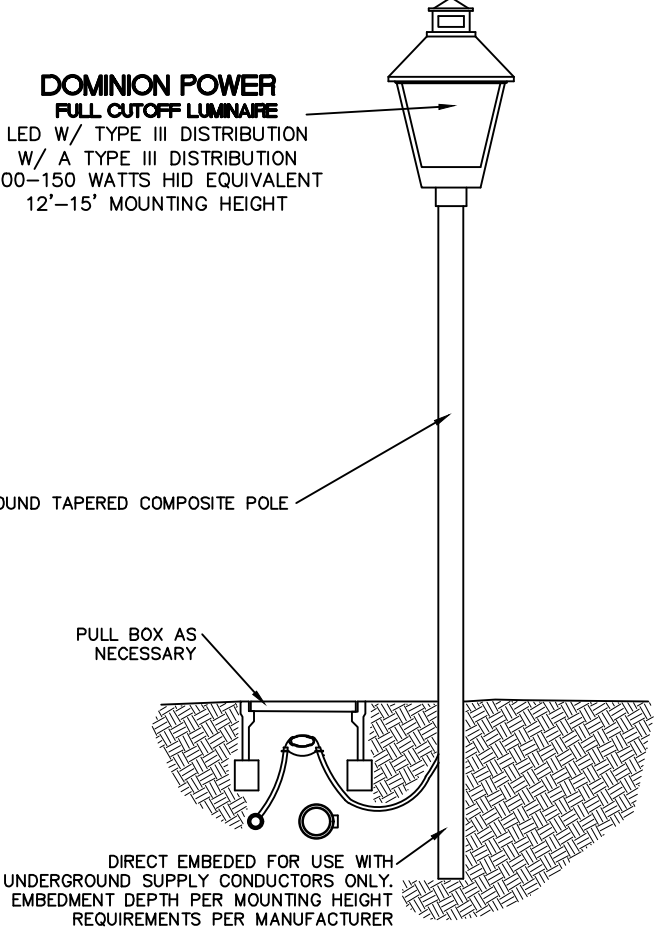


- SITE LANDSCAPING (5.2.4)**
- REQUIREMENTS:
 - (2) CALIPER INCHES OF CANOPY TREES PER ACRE.
 - (1) SHRUB PER EACH 5 FEET OF BUILDING FACADE FACING A STREET.
 - AT LEAST ONE-HALF OF SHRUBS SHALL BE EVERGREEN.
 - PROVISIONS:
 - THE AREA OF THIS PROJECT IS APPROX. 1.28 ACRES REQUIRING (2.6) AGGREGATE CALIPER INCHES OF CANOPY TREE. SEE PLAN FOR (13) CANOPY TREES PROPOSED ACROSS THE SITE PROVIDING (26) AGGREGATE CALIPER INCHES.
 - THE PROPOSED BUILDING FACADE FACING CURRITUCK COMMERCIAL DR IS 120', REQUIRING (24) SHRUBS. SEE PLAN FOR A TOTAL OF (24) SHRUBS PROPOSED ALONG THE FRONT BUILDING FACADE. 50% ARE NOTED AS EVERGREEN.
 - THE PROPOSED BUILDING FACADE FACING MOYOCK COMMONS DR IS 81', REQUIRING (16) SHRUBS. SEE PLAN FOR A TOTAL OF (16) SHRUBS PROPOSED ALONG THE FRONT BUILDING FACADE. 50% ARE NOTED AS EVERGREEN.
- VEHICULAR USE AREA LANDSCAPING (5.2.5)**
- REQUIREMENTS:
 - SHADING - NO PARKING SPACE TO BE MORE THAN 60' FROM THE TRUNK OF A CANOPY TREE
 - PERIMETER LANDSCAPING STRIPS COMPOSED OF:
 - SHRUBS @ 5 FT ON-CENTER ALONG ABUTTING STREET R/W OR OTHER DEVELOPMENT
 - ALL SHRUBS MUST BE EVERGREEN.
 - NO PERIMETER LANDSCAPING STRIP IS REQUIRED ALONG THE SOUTHEASTERN SIDES OF THE PARKING AREA THAT FACE AN EXISTING PARKING AREA ON THE ADJOINING COMMERCIAL DEVELOPMENT PROPERTY TO THE SOUTHEAST.
 - PROVISIONS:
 - SHADING - SEE PLAN FOR (13) CANOPY TREES PROPOSED THROUGHOUT THE VEHICLE USE AREA AND LOCATED WITHIN 60' OF ALL PARKING SPACES.
 - PERIMETER LANDSCAPING STRIPS COMPOSED OF:
 - SEE PLAN FOR (98) EVERGREEN SHRUBS SPACED @ 5' O.C. ALONG ABUTTING R/W AND OTHER DEVELOPMENT.
- PERIMETER LANDSCAPE BUFFERS (5.2.6)**
- THE SITE AND SURROUNDING PROPERTIES ARE ALL ZONED GB, THEREFORE, PERIMETER LANDSCAPE BUFFERS ARE NOT REQUIRED.
- SCREENING (5.2.7)**
- REQUIREMENTS:
 - REFUSE DUMPSTERS SHALL BE SCREENED WITH APPROVED METHODS
 - LOADING BAYS & DOCKS SHALL BE SCREENED WITH APPROVED METHODS
 - PROVISIONS:
 - SEE PLAN AND TYPICAL DETAIL FOR OPAQUE SCREENING ENCLOSURE OF PROPOSED DUMPSTER.
 - SEE PLAN FOR (3) CANOPY TREES + (3) UNDERSTORY TREES + (21) SHRUBS PROPOSED AROUND LOADING ZONE.
- STREETSCAPE (5.2.8)**
- REQUIREMENTS: [PER SITES VISIBLE FROM, BUT NOT ACCESSED FROM MAJOR ARTERIAL]
 - (8) AGGREGATE CALIPER INCHES OF CANOPY TREES PER 100 LINEAR FEET.
 - PROVISIONS:
 - PROPERTY FRONTAGE FACING HWY 168 EXTENDS 242', REQUIRING 19.4 ACI OF CANOPY TREES.
 - SEE PLAN FOR (7) PROPOSED CANOPY TREES + (1) EXISTING TREE BEING RETAINED FACING HWY 168.

- PLANTING AND FENCING GUIDELINES**
- TREE & SHRUB SPECIES AND PLANTING GUIDELINES:**
- ALL TREES AND SHRUBS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANTING STANDARDS SPECIFIED IN SECTION 3.5 OF THE CURRITUCK COUNTY ADMINISTRATIVE MANUAL AND THIS PLAN.
 - CANOPY AND UNDERSTORY TREE SPECIES SHALL BE OF THOSE LISTED UNDER "TABLE 3.4.6: RECOMMENDED PLANTINGS" IN THE SAME MANUAL.
 - TREE SPECIES SHALL BE DIVERSE. A MINIMUM OF (2) DIFFERENT SPECIES OF CANOPY TREES AND UNDERSTORY TREES SHALL BE INSTALLED IN ROUGHLY EQUAL PROPORTIONS.
 - AT INSTALLATION, CANOPY TREES SHALL HAVE A MINIMUM CALIPER OF 2 INCHES MEASURED AT 6 INCHES ABOVE GRADE. EIGHT FOOT HIGH TREES MAY BE PLANTED AS AN ALTERNATIVE.
 - AT INSTALLATION, UNDERSTORY TREES SHALL HAVE A MINIMUM CALIPER OF 1.5 INCHES MEASURED AT 6 INCHES ABOVE GRADE. EIGHT FOOT HIGH TREES MAY BE PLANTED AS AN ALTERNATIVE.
 - SHRUBS SHALL BE PLANTED AT THE SPACING NOTED ON THE PLANS AND FORM A VISUAL SCREEN WITH A MIN. MATURE HEIGHT OF 36". SHRUBS SHALL BE EVERGREEN AS NOTED AND BE A MINIMUM (3) GALLON SIZE AT PLANTING.
 - THE USE OF NATIVE, DROUGHT TOLERANT TREES AND SHRUBS IS ENCOURAGED.
 - MATERIALS SHALL BE OF HIGH-QUALITY NURSERY GRADE.
 - A REPUTABLE LANDSCAPE CONTRACTOR OR SUPPLIER SHALL PREPARE AN ITEMIZED SCHEDULE OF TREES TO BE INSTALLED IN ACCORDANCE WITH THIS LANDSCAPE PLAN. THIS SCHEDULE SHALL BE REVIEWED BY CURRITUCK COUNTY AND THE ENGINEER TO DETERMINE COMPLIANCE BEFORE ORDERING AND INSTALLATION. ALTERNATE TREES AND SPECIFICATIONS MAY BE PRESENTED FOR REVIEW AND APPROVAL.
- FENCE AND WALL GUIDELINES:**
- ALL FENCES AND WALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS SPECIFIED IN SECTIONS 5.2.7.D.(3) & 5.3 OF THE CURRITUCK COUNTY UDO AND THIS PLAN.
 - THE FENCE SHALL BE OF SOLID CONSTRUCTION AND NOT EXCEED OR FALL SHORT OF THE HEIGHT PRESCRIBED ON THIS APPROVED PLAN.
 - OPAQUE FENCES SHALL BE CONSTRUCTED OF TREATED OR ROT-RESISTANT WOOD, OR A PLASTIC IR VINYL FENCE DESIGNED TO LOOK LIKE AN OPAQUE WOODEN FENCE.
 - BARBED WIRE, CONCERTINA WIRE AND ABOVE GROUND ELECTRIFIED FENCES ARE PROHIBITED.
 - USE OF CHAIN LINK FENCING WITH WOODEN OR PLASTIC SLATS SHALL BE LIMITED TO ACCESS GATES ONLY.
 - FENCING ALONG A MAJOR ARTERIAL ROADWAY SHALL BE INSTALLED WITH THE "FINISHED" SIDE FACING THE ROADWAY.
 - ALL FENCING OR WALL SEGMENTS LOCATED ALONG A SINGLE LOT SIDE SHALL BE COMPOSED OF A UNIFORM STYLE AND COLORS COMPATIBLE WITH OTHER PARTS OF THE FENCE.
 - FENCING SHALL BE DESIGNED AND INSTALLED BY A REPUTABLE FENCE CONTRACTOR.

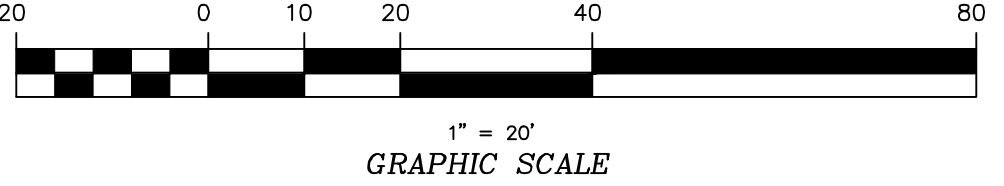
GENERAL PHOTOMETRIC SCHEDULE

AVERAGE FOOT-CANDLES	0.45
MAXIMUM FOOT-CANDLES	9.8
MINIMUM FOOT-CANDLES	0.0
MINIMUM TO MAXIMUM FC RATIO	0.00
MAXIMUM TO MINIMUM FC RATIO	17901.03
AVERAGE TO MINIMUM FC RATIO	815.66



TYP. STREET LIGHT DETAIL

NOT TO SCALE. LOCATION AS NOTED ON PLAN
LOCATED @ 200'-300' INTERVALS AND AT CROSSWALKS (BOTH SIDES OF DIVIDED BOULEVARDS, AT LEAST ON ONE SIDE OF STANDARD STREETS.)



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LANDSCAPING, BUFFERING & EXTERIOR LIGHTING PLAN

MOYOCK DENTAL OFFICE
 NORTH CAROLINA
 CURRITUCK COUNTY
 MOYOCK TOWNSHIP

COMMERCIAL SITE DEVELOPMENT PLANS

PROJECT: 342700B1
 SHEET: 6 OF 10
 PROJECT NO: 3427

REVISIONS

NO.	DATE	DESCRIPTION

FINAL DRAWING NOT RELEASED FOR CONSTRUCTION

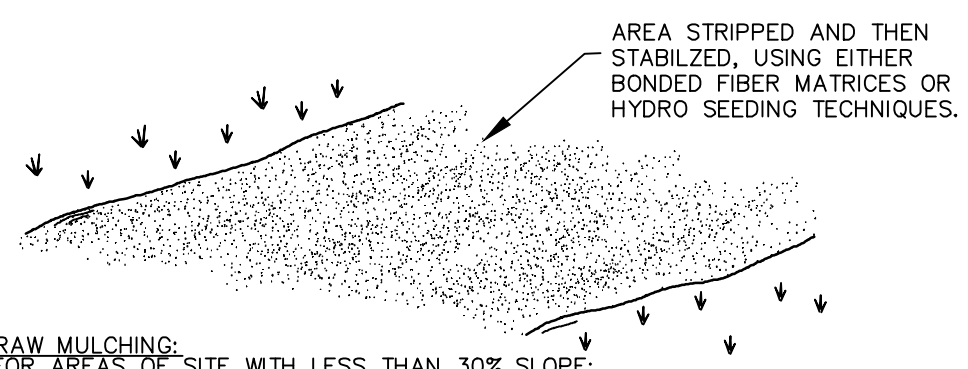
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 DESIGNED: BPG CHECKED: MSB
 DRAWN: KFW/DMK APPROVED: BPG

CAD FILE: 342700B1
 PROJECT NO: 3427

GENERAL PROJECT NOTES:

- PROJECT NAME: MOYOCK DENTAL OFFICE
MOYOCK CURRITUCK COUNTY, NORTH CAROLINA
- OWNER/APPLICANT: GCG REALTY, LLC
200 CARMICHAEL WAY
CHESAPEAKE, VA 23322
- PROJECT DESCRIPTION: MIXED USE COMMERCIAL SHOPPING CENTER
- NEAREST RECEIVING STREAM: MOYOCK RUN - INDEX NUMBER: 30-12-2-1
- STREAM CLASSIFICATION: C; Sw - PASQUOTANK RIVER BASIN
- PROJECT AREA TABULATION:
TOTAL PARCEL AREA: 1.28 AC.
TOTAL PROPOSED DISTURBED AREA: 1.26 AC.
- AREA CALCULATION NOTE:
All areas have been calculated utilizing properties within the Autocad software.
- MATERIAL BALANCE NOTE:
All excavated material occurring during the course of construction will remain on-site for parking and building construction. Borrow material is anticipated and must be obtained from a permitted borrow pit. See SCHEDULE OF LAND DISTURBING ACTIVITIES provided on Sheet 05 of this set for an estimated cut/fill material balance for the project.
- WETLAND NOTE:
The property contains no known 404 jurisdictional wetlands.
- STABILIZATION NOTE:
The angle of graded slopes and fills shall be no greater than the angle that can be retained by vegetative cover or other adequate erosion control devices or structures. In any event, all disturbed areas left exposed will, WITHIN 14 CALENDAR DAYS OF COMPLETION of any phase of grading, be planted or otherwise provided with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion. Additionally, certain critical areas as identified on the plan, such as, but not limited to, perimeter dikes, swales, slopes steeper than 2:1, and areas located within High Quality Water Zones, must be temporarily or permanently stabilized WITHIN 7 CALENDAR DAYS OF COMPLETION of any phase of grading in these areas. A permanent ground cover for all disturbed areas must be provided WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (whichever is shorter) following completion of construction or development.

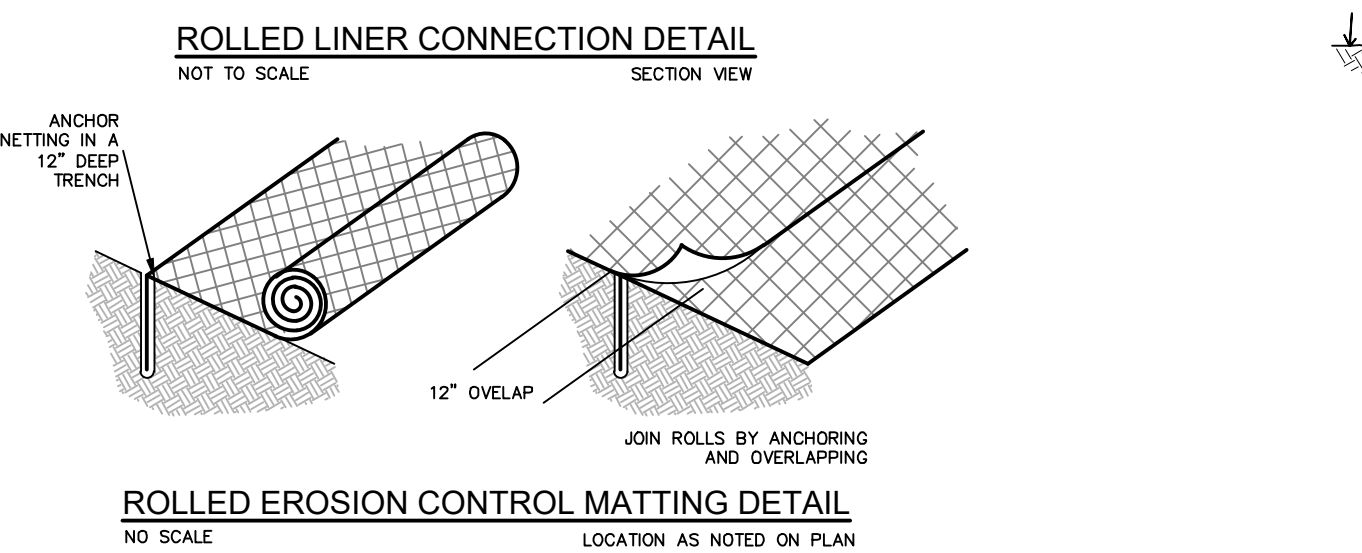
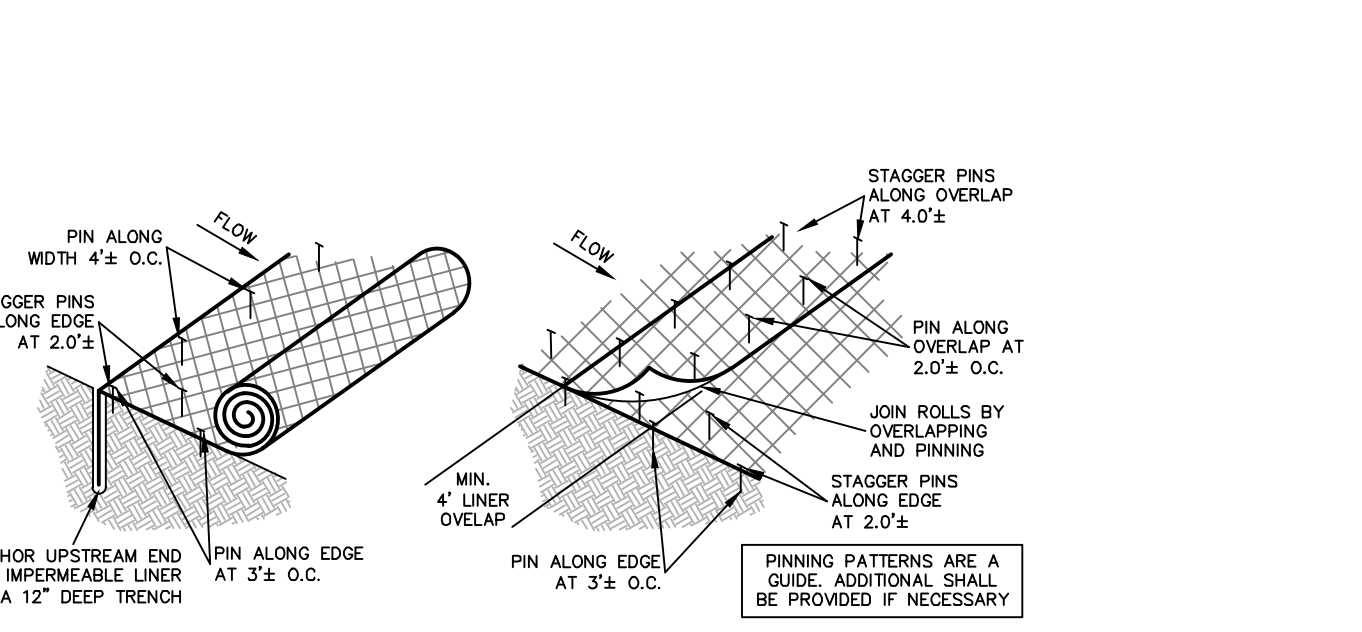
7. NARRATIVE AND SITE DATA
THE PROJECT IS LOCATED AT THE INTERSECTION OF CURRITUCK COMMERCIAL DRIVE (SR1456) AND MOYOCK COMMONS DRIVE, OFF THE SOUTH SIDE OF GARATONE HWY. I-80 IN MOYOCK. THE PROPERTY (LOT 16) IS PART OF A LARGER COMMERCIAL SUBDIVISION KNOWN AS CURRITUCK COMMERCIAL CENTER THAT WAS DEVELOPED IN THE LATE 1990'S. SOMETIME PRIOR, THE SITE WAS PARTIALLY PREPARED WITH INITIAL GRADING, GRAVEL BASE COURSE AND UTILITY STUB OUTS TO SERVE A FUTURE BUILDING THAT WAS NOT CONSTRUCTED. ADJACENT LANDS ARE EITHER DEVELOPED COMMERCIAL OR VACANT.
THE PROPOSED PROJECT INVOLVES CONSTRUCTION OF A SINGLE STORY BUILDING TO ACCOMMODATE A DENTAL OFFICE AND A RETAIL SPACES. OTHER IMPROVEMENTS WILL INCLUDE PARKING, DRIVEWAY CONNECTIONS TO MOYOCK COMMONS DRIVE AND CURRITUCK COMMERCIAL DRIVE, DRAINAGE, UTILITY CONNECTIONS, LANDSCAPING AND LIGHTING. STORMWATER RUNOFF WILL PRIMARILY SHEET FLOW INTO SURROUNDING SWALES THAT ULTIMATELY DRAIN TO AN EXISTING WET DETENTION BASIN THAT SERVES TO MANAGE STORMWATER FOR THE ENTIRE SUBDIVISION.
EXISTING TOPOGRAPHY IS FLAT WITH ELEVATIONS RANGING FROM JUST ABOVE 10' MSL NEAR THE CENTER OF THE SITE TO AROUND 8' BEFORE FALLING INTO EXISTING SWALES AROUND THE PERIMETER. PURSUANT TO THE USGS SOIL SURVEY MAP OF CURRITUCK COUNTY, SOILS ACROSS THE PROPERTY ARE COMPOSED OF ROANOKE FINE SANDY LOAM. ROANOKE SERIES SOILS ARE DESCRIBED AS NEARLY LEVEL, POORLY DRAINAGE AND SLOW PERMEABILITY WITH A SEASONAL HIGH WATER TABLE AT OR NEAR THE SURFACE.



STRAW MULCHING:
1. FOR AREAS OF SITE WITH LESS THAN 30% SLOPE:
2-3 BALES STRAW EQUALS 2-INCHES OF STRAW MULCH OVER 1000 SQUARE FEET.
2. MULCH SHALL BE WEED FREE STRAW.

TO PROVIDE TEMPORARY SOIL STABILIZATION BY PLANTING GRASSES AND LEGUMES TO AREAS THAT WOULD REMAIN BARE FOR MORE THAN 14 CALENDAR DAYS, OR 7 DAYS IN IDENTIFIED CRITICAL AREAS, WHERE PERMANENT COVER IS NOT NECESSARY OR APPROPRIATE.

LAND DISTURBANCE & STABILIZATION DETAIL
NOT TO SCALE



ROLLED EROSION CONTROL MATTING (R.E.C.M.) SPECIFICATIONS:

- All areas identified as erosion control matting shall be lined with a protective covering to minimize erosion and protect seed until permanent vegetation is established.
- Covering shall be composed of a bio or photo degradable material to minimize long term environmental impacts.
- Mulching with straw or other organic materials can be utilized only when it will not impede the establishment of permanent vegetation. Mulches must be properly anchored which may be difficult in some environments. An example is straw mulch with jute netting stapled or pinned in place.
- Pre-manufactured rolled erosion control products (RECP) are highly recommended for this application. RECP's shall be installed according to manufacturer specifications for channel linings. An example is a woven straw or wooden fiber Excelior matting.

CONSTRUCTION SEQUENCE SCHEDULE

- CONSTRUCTION ACTIVITY**
Entrance, construction routes, equipment parking areas
- Sediment Traps & Barriers**
Basin traps, sediment fences, & outlet protection
- Runoff Control**—
Diversion, perimeter dikes, water bars, and outlet protection
- Runoff Conveyance System**—
Stables stream banks, storm drains, channels, inlet & outlet protection, slope drains
- Land Clearing & Grading**—
Site preparation— cutting, filling & grading, sediment traps, barriers, diversions, drains, surface roughening
- Surface Stabilization**—
Temporary & permanent seeding, mulching, sodding, rip rap.
- Building Construction**—
Buildings, utilities, paving.
- Landscaping & Final Stabilization**—
Toppingsoil, trees & shrubs, permanent seeding, mulching, sodding, rip rap

SCHEDULE CONSIDERATION

- Install principal basins after construction site is accessed. Install additional traps and barriers as needed during grading.
- Install key practices after principal sediments traps and before land grading. Install additional runoff-control conveyance measures during grading.
- Where necessary, stabilize stream banks as early as possible. Install principal runoff conveyance system with runoff-control measures. Install remainder of system after grading.
- Begin major clearing and grading after principal & key runoff-control measures area installed. Clear borrow & disposal areas as needed. Install additional control measures as grading progresses. Mark trees & buffer areas for preservation.
- Apply temporary or permanent stabilization measures immediately on all disturbed areas where work is delayed or complete.
- Install necessary erosion & sedimentation control practices as work takes place.
- Stabilize all open areas, including borrow & spoil areas. Remove & stabilize all temporary control measures.

LAND GRADING CONSTRUCTION SPECIFICATIONS

- Construct & maintain all erosion & sedimentation control practices & measures in accordance with the approved sedimentation control plan and construction schedule.
- Remove good topsoil from areas to be graded and filled, and preserve it for use in finishing the grading of all critical areas.
- Scarify areas to be topsoiled to a minimum depth of 2 inches before placing topsoil.
- Clear & grub areas to be filled to remove trees, vegetation, roots, or other objectionable material that would affect the planned stability of fill.
- Ensure that fill material is free of brush, rubbish, rocks, logs, stumps, building debris, and other materials inappropriate for constructing stable fills.
- Place all fill in layers not to exceed 9 inches in thickness, and compact the layers as required to reduce erosion, slippage, settlement, or other related problems.
- Do not incorporate frozen material or soft, mucky, or highly compressible materials into fill slopes.
- Do not place fill on a frozen foundation, due to possible subsidence and slippage.
- Keep diversions and other water conveyance measures free of sediment during all phases of development.
- Handle seeps or springs encountered during construction in accordance with approved methods.
- Following completion of any phase of grading, provide a groundcover (temporary or permanent) on all exposed slopes within 14 calendar days, or 7 calendar days in critical areas identified on the plan; and, a permanent groundcover for all disturbed areas within 15 working days or 90 calendar days (whichever is shorter) following completion of construction or development.
- Provide adequate protection from erosion for all topsoil stockpiles, borrow areas, and spoil areas.

MAINTENANCE

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

PERMANENT SEEDING

- The purpose of permanent seeding is to reduce erosion and decrease sediment yield from disturbed areas, and to permanently stabilize such areas in a manner that is economical, adapts to site conditions, and allows selection of the most appropriate plant materials. These areas must be seeded or planted within 15 working days or 90 calendar days after final grade is reached, unless temporary stabilization is applied.
- PERMANENT SEEDING SPECIFICATIONS**
Seeding Recommendations for Summer
SEEDING DATES – April to July
SEEDING MIXTURE
Species Rate
Common bermudagrass 10/1,000 sf (sprigs)
1-2 lb/1,000 sf (seed)
SOD (See Sodding Notes)
- Seeding Recommendations for Early Fall through Early Spring**
SEEDING DATES – August to March (early fall and spring recommended)
Species Rate
Kentucky 31 Tall Fescue 6 lb/1,000 sf (broadcast seed)
- SEEDING NOTES**—
1. Sprig or sod. Moisture is essential during initial establishment. Sod must be kept watered for 2-3 weeks, but can be planted earlier or later than sprigs.
2. Do not place fill on a frozen foundation, due to possible subsidence and slippage.
3. Keep diversions and other water conveyance measures free of sediment during all phases of development.
4. Handle seeps or springs encountered during construction in accordance with approved methods.
5. Following completion of any phase of grading, provide a groundcover (temporary or permanent) on all exposed slopes within 14 calendar days, or 7 calendar days in critical areas identified on the plan; and, a permanent groundcover for all disturbed areas within 15 working days or 90 calendar days (whichever is shorter) following completion of construction or development.
6. Provide adequate protection from erosion for all topsoil stockpiles, borrow areas, and spoil areas.

BROADCAST

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

Mulch—
Do not mulch Bermuda Grass. For Tall Fescue seed, apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.

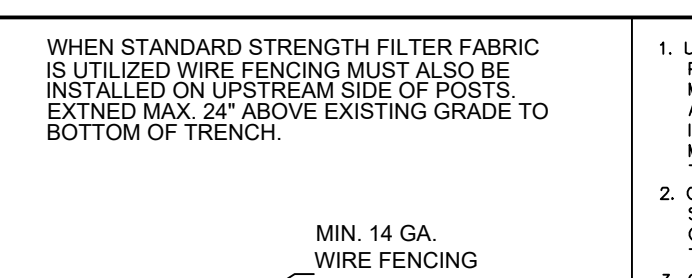
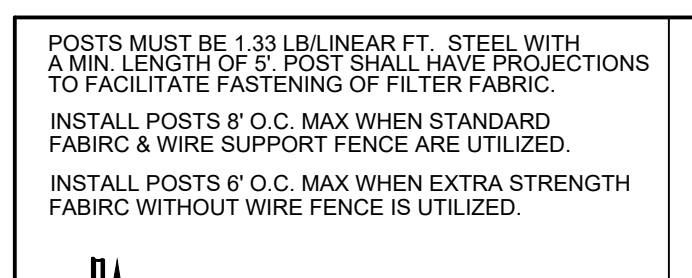
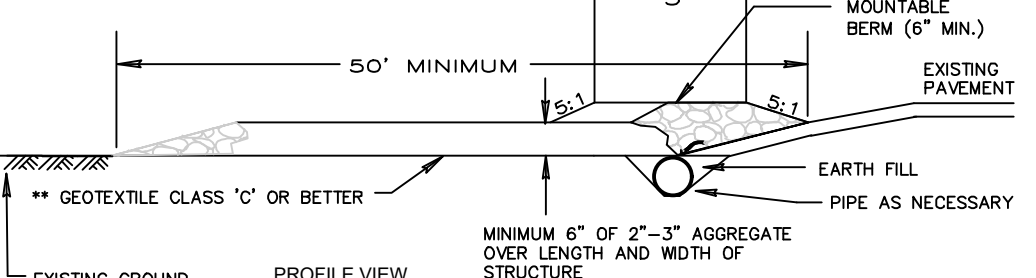
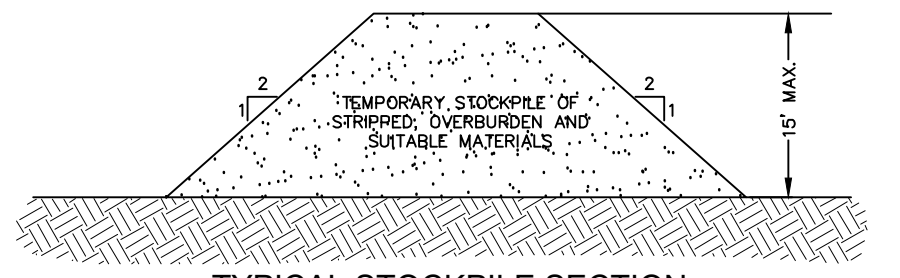
Maintenance—
Water as needed. Mow bermuda to 3/4 to 1-inch height and tall fescue to 2.5 - 3.5 inch height. Topdress bermuda with 40 lb/acre nitrogen in April, 50 lb in May, 50 lb in June, 50 lb in July, and 25 lb in August. Top dress tall fescue in mid September, again in November and February with turf-grade 3-1-2 or 4-1-2 ratio turf-grade fertilizer. Fertilize with 1 lb of actual nitrogen per 1,000 sf. Do not fertilize tall fescue between Mid March and Early September.

TEMPORARY SEEDING

- The purpose of temporary seeding is to temporarily stabilize denuded areas that will not be brought to final grade or permanently seeded for a period of more than 14 calendar days, or 7 days in critical areas identified on the plan.
- TEMPORARY SEEDING SPECIFICATIONS**
Seeding Recommendations for Late Winter & Early Spring
SEEDING DATES— December 1 to April 15
SEEDING MIXTURE
Species Rate (lb/acre)
Winter Rye (grain) 120 (Annual Ryegrass shall not be used)
Annual Lespedeza 50
(Kobe)
*omit Annual Lespedeza when duration of temporary cover is not to extend beyond June
- Soil Amendments**—
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.
- Mulch**—
Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.
- Maintenance**—
Re-fertilize if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.
- Seeding Recommendations for Summer**
SEEDING DATES— April 15 to August 15
SEEDING MIXTURE
Species Rate (lb/acre)
German Millet 40
- Soil Amendments**—
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.
- Mulch**—
Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.
- Maintenance**—
Re-fertilize if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.
- Seeding Recommendations for Fall**
SEEDING DATES— August 15 to December 30
SEEDING MIXTURE
Species Rate (lb/acre)
Winter Rye (grain) 120
Soil Amendments—
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.
- Mulch**—
Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.
- Maintenance**—
Repair and re-fertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe Lespedeza in late February or Early March.

SODDING

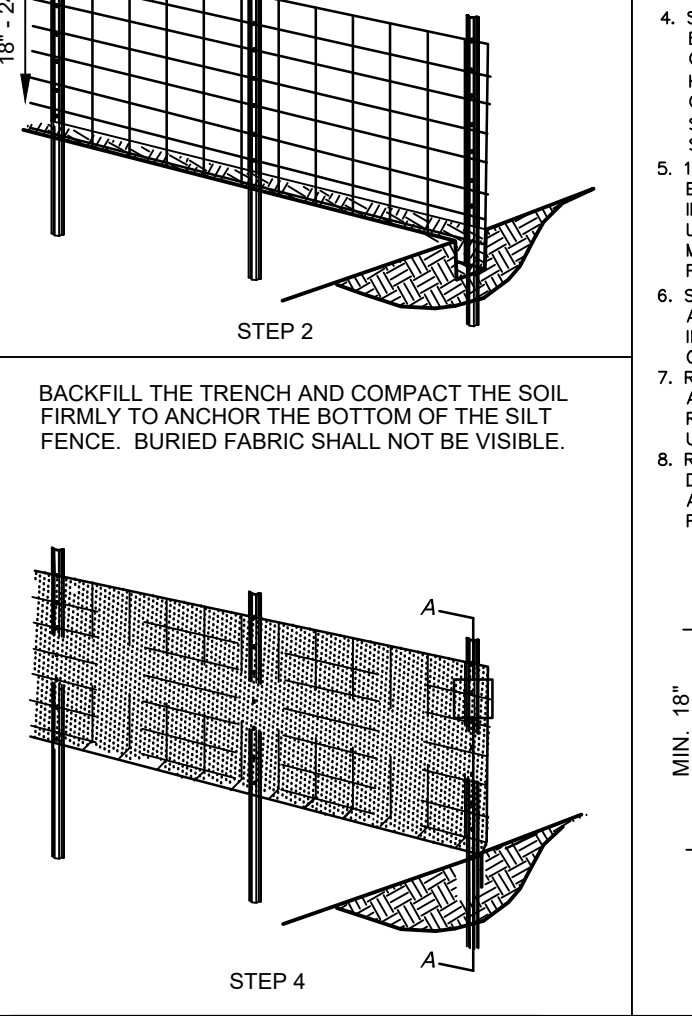
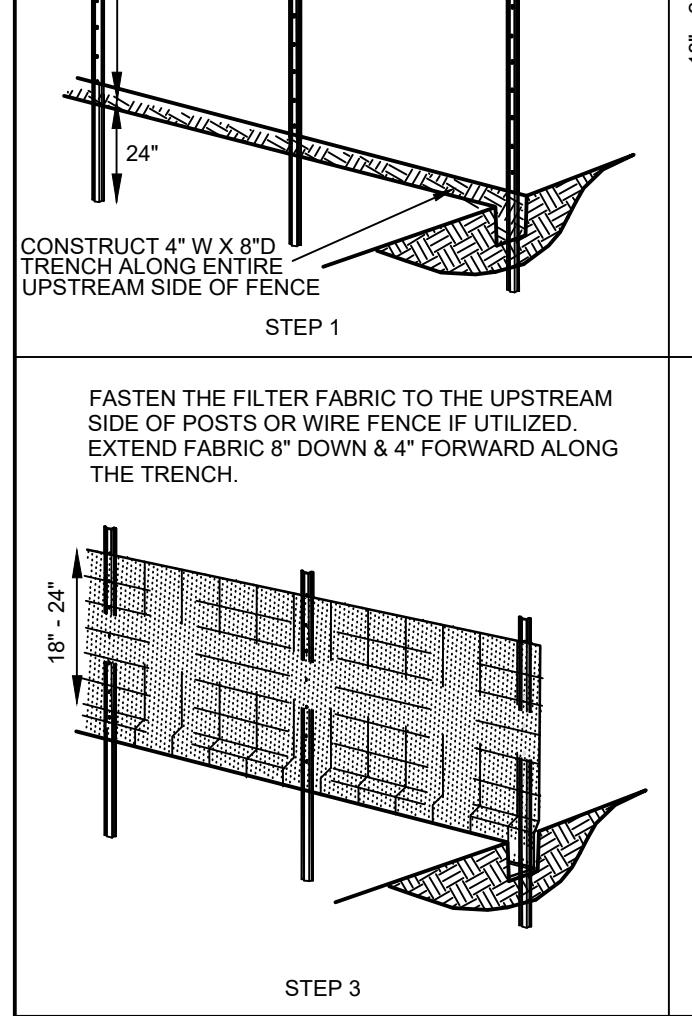
- The purpose of permanent seeding is to prevent erosion and damage from sediment and runoff by stabilizing the soil surface with permanent vegetation for the purpose of:
- the provision of immediate vegetative cover in critical areas
 - to stabilize disturbed areas with a suitable plant material that cannot be established by seed.
 - to stabilize drainage ways & channels and other areas of concentrated flow where flow velocities will not exceed that specified grass lining.
- SODDING SPECIFICATIONS**
Sod Quality
-Sod should be machine cut at a uniform depth of 1/2-2 inches
-Sod should not have been cut in excessively wet or dry weather.
-Sections of sod should be standard size as determined by the supplier, uniform, and uniform.
-Sections of sod should be strong enough to support their own weight and retain their size and shape when lifted by one end.
-Harvest, delivery, and installation of sod should take place within a period of 36 hours.
- Soil Amendments**—
Follow recommendations of soil tests or apply 2 tons/acre of pulverized agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer in the fall, or 5-10-10 in spring.
- Prior to laying sod, clear the soil surface of trash, debris, roots, branches, stones, and clods larger than 2 inches in diameter. Fill or level low spots in order to avoid standing water. Rake or harrow the site to achieve a smooth and level final grade. Complete soil preparation by rolling or outpacking to firm soil.**
- Sod Installation**—
1. Moistening the sod after it is unrolled helps maintain viability. Store in shade during installation.
2. Rake the soil surface to break the crust just before laying sod. During the summer, lightly irrigate the soil, immediately before laying sod to cool the soil and reduce root burning & dieback.
3. Do not sod on gravel, frozen soils, or soils that have been treated recently with sterilants or herbicides.
4. Lay the first row of sod in a straight line with subsequent rows placed parallel to and butting tightly against each other. Stagger strips in a brick-like pattern. Be sure that the sod is not stretched or overlapped and that all joints are butted tightly to prevent voids. Use a knife or sharp spade to firm and fill irregular shaped areas.
5. Install strips of sod with the longest dimension perpendicular to the slope. On slopes of 3:1 or greater, or wherever erosion may be a problem, secure sod with pegs or staples.
6. As sodding of clearly defined areas is completed, roll sod to provide good contact between roots and soil.
7. After rolling, irrigate until the soil is wet 4 inches below the sod.
8. Keep sodded areas moist to a depth of 4 inches until the grass takes root. This can be determined by tugging on the sod.
9. Mowing should not be attempted until the sod is firmly rooted, usually 2-3 weeks.
- Sodded Waterways**
1. Prepare sod as described above.
2. Lay sod strips perpendicular to the direction of flow, with the lateral joints staggered in a brick-like pattern. Butt edges tightly together.
- Maintenance**—
After the first week, water as necessary to maintain adequate moisture in the root zone & prevent dormancy of the sod.
Do not remove more than one-third of the shoot in any one mowing. Grass height should be maintained between 2-3 inches unless otherwise specified.
After first growing season, established sod requires fertilization, and may also require lime. Follow soil test recommendations.



CONSTRUCTION ENTRANCE SPECIFICATIONS

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

TYPICAL SILT FENCING DETAIL
NOT TO SCALE LOCATION AS NOTED ON PLAN



CONSTRUCTION ENTRANCE SPECIFICATIONS

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TYPICAL SILT FENCING DETAIL
NOT TO SCALE LOCATION AS NOTED ON PLAN

Bissell Professional Group
Firm License # C-956
Professional Engineer
P.O. Box 1008
1234 7th Ave., South
Chesapeake, Virginia 23324
Tel: (757) 261-1760
Fax: (757) 261-1760

BISSELL PROFESSIONAL GROUP
Engineers, Planners, Surveyors
and Environmental Specialists

TYP. EROSION CONTROL NOTES & CONSTRUCTION DETAILS

MOYOCK DENTAL OFFICE
NORTH CAROLINA
CURRITUCK COUNTY
MOYOCK TOWNSHIP

COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS

NO.	DATE	DESCRIPTION
1	8-22-23	NO SCALE
2		
3		
4		
5		
6		
7		
8		
9		
10		

DATE: 8-22-23 **SCALE:** NO SCALE
DRAWN: BPG **CHECKED:** MSB
DESIGN: KFW/DMK **APPROVED:** BPG
SHEET: 8 OF 10
CAD FILE: 342700B1
PROJECT NO.: 3427

FINAL DRAWING NOT FOR CONSTRUCTION

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

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

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

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

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

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

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

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

3. Documentation to be Retained for Three Years

All data used to complete the e-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:

- Visible sediment deposition in a stream or wetland.
- 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).
- 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.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> 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)]	<ul style="list-style-type: none"> 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)]	<ul style="list-style-type: none"> 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)]	<ul style="list-style-type: none"> 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.



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

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NCG01 SELF-INSPECTION,
RECORDKEEPING & REPORTING
NORTH CAROLINA
CURRITUCK COUNTY
MOYOCK TOWNSHIP
COMMERCIAL SITE DEVELOPMENT PLANS

NO.	DATE	DESCRIPTION

FINAL DRAWING
NOT RELEASED FOR
CONSTRUCTION

DATE: 8-22-23
SCALE: NO SCALE
DRAWN: BPG
CHECKED: MSB
APPROVED: BPG
SHEET: 9 OF 10
CAD FILE: 342700B1
PROJECT NO: 3427

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

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

SECTION E: GROUND STABILIZATION

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

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

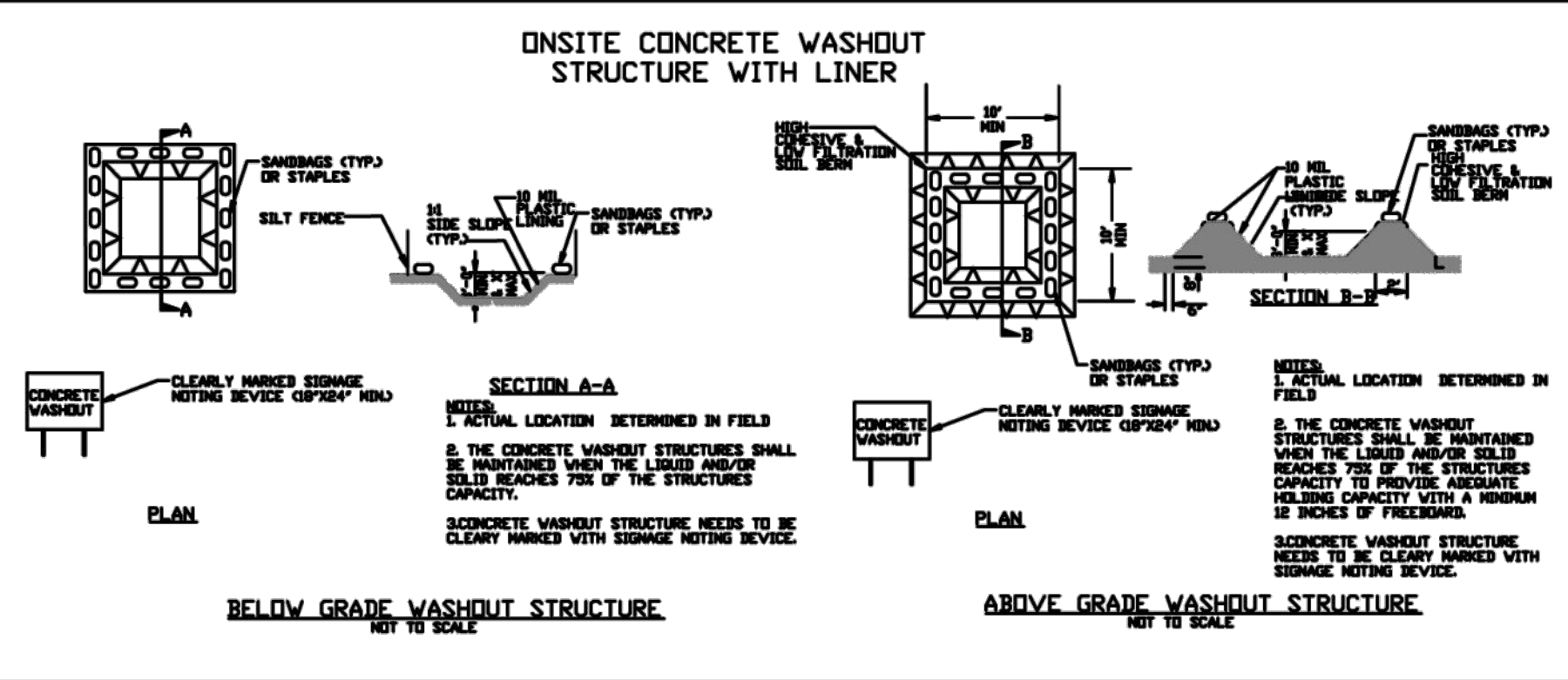
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

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



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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



NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

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Engineers, Planners, Surveyors
and Environmental Specialists

PROJECT: NCG01 GROUND STABILIZATION AND MATERIALS HANDLING
NORTH CAROLINA
CURRITUCK COUNTY
MOYOCK TOWNSHIP
MOYOCK DENTAL OFFICE
COMMERCIAL SITE DEVELOPMENT PLANS

NO.	DATE	DESCRIPTION



DATE: 8-22-23
DRAWN: BPG
CHECKED: MSB
APPROVED: BPG
SHEET: 10 OF 10
CAD FILE: 342700B1
PROJECT NO: 3427

FINAL DRAWING
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PROJECT NAME:
**MOYOCK
 DENTAL
 OFFICE**
 CURR. COMM. DR.
 MOYOCK, NC

REVISIONS:	DATE:
CLIENT REVIEW	5 / 26 / 23
CLIENT REVIEW	6 / 22 / 23
CLIENT REVIEW	6 / 28 / 23
COUNTY REVIEW	7 / 12 / 23
COUNTY REVISION	8 / 4 / 23

DRAWING NAME:
**BUILDING
 PLANS**

PRELIMINARY DRAWINGS
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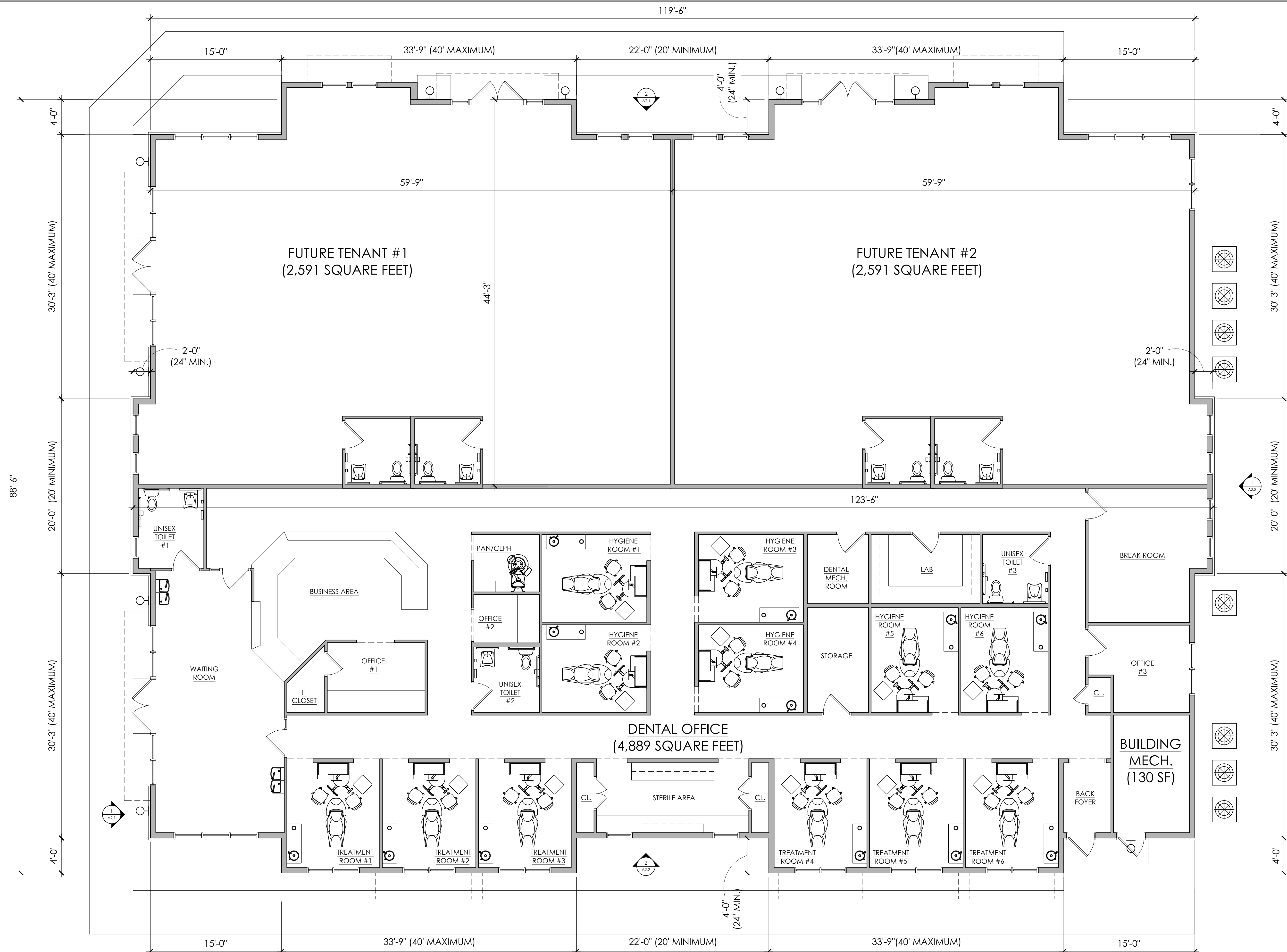
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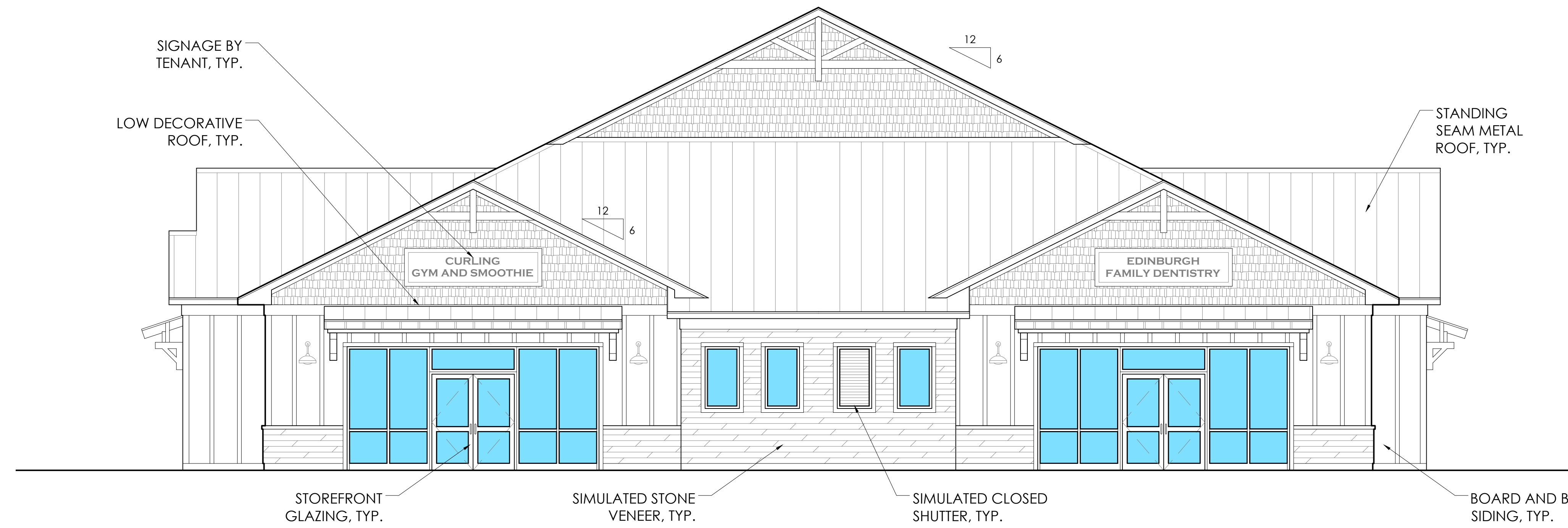
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SHEET:
A1.1



1 BUILDING FLOOR PLAN -10,301 SF
 SCALE: 1/4" = 1'-0"



1 EXTERIOR ELEVATION
 SCALE: $\frac{3}{16}'' = 1'-0''$



2 EXTERIOR ELEVATION
 SCALE: $\frac{3}{16}'' = 1'-0''$

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**MOYOCK
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 CURR. COMM. DR.
 MOYOCK, NC

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DRAWING NAME:
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 ELEVATIONS**

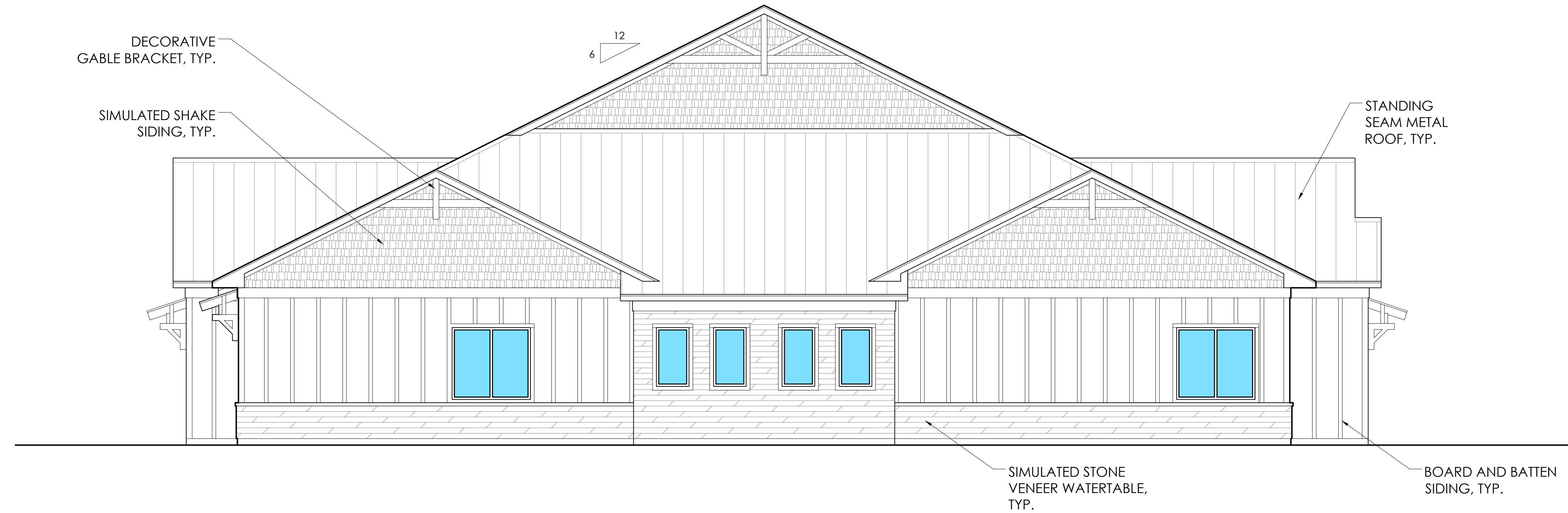
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1 EXTERIOR ELEVATION
 SCALE: $\frac{3}{16}'' = 1'-0''$

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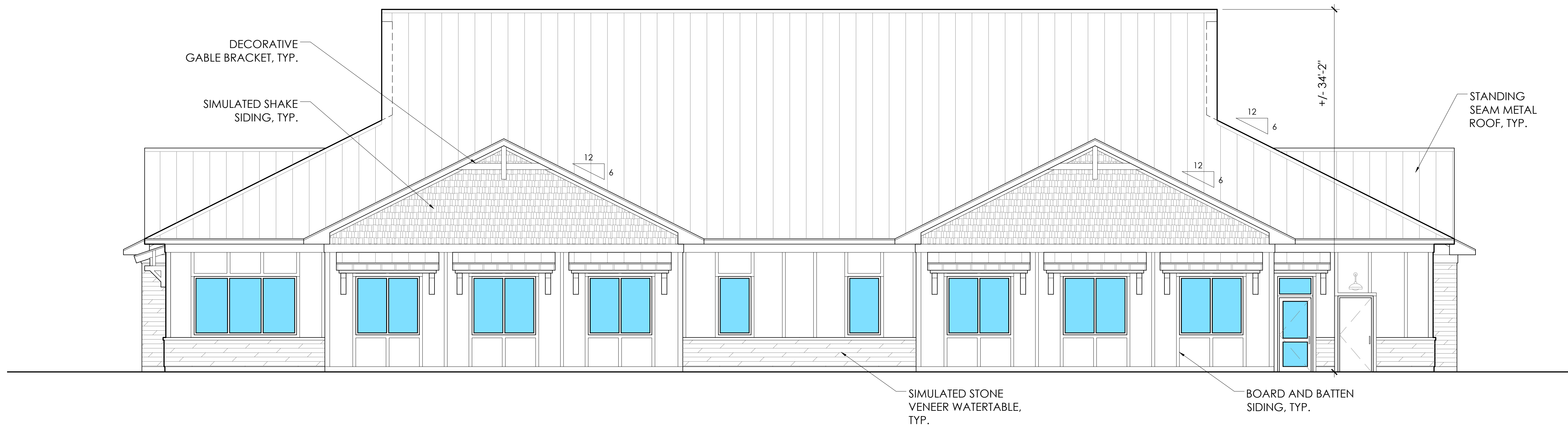
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A2.2



2 EXTERIOR ELEVATION
 SCALE: $\frac{3}{16}'' = 1'-0''$



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