

CONSTRUCTION PLANS FOR #6112 MOYOCK MILLS ROAD MOYOCK, NORTH CAROLINA

05/23/2025

SITE DEVELOPMENT SUMMARY:

PROPERTY ADDRESS: PARCEL 1: 123 S MILLS RD MOYOCK NC 27958 USA
 PARCEL 2: 468 CARATOKE HWY MOYOCK NC 27958 USA
 PARCEL 3: 472 CARATOKE HWY MOYOCK NC 27958

STORE NUMBER: #6112

PROJECT ENGINEER: PAYMAN NADIMI
 260 WEST BALTIMORE PIKE
 WAWA, PA 19083
 EMAIL: PAYMAN.NADIMI@WAWA.COM

BUILDING TYPE: U63FB
 CANOPY TYPE: SLOPED
 CANOPY CONFIGURATION: STACKED
 # OF MPDS: 8
 TYPE OF MPDS: THREE PRODUCT DISPENSER
 # OF PARKING SPACES: 42
 # OF ADA SPACES: 2
 # OF TRUCK/OVERSIZE PARKING: 2
 SF OF ASPHALT INSIDE ROW: 0 SF
 SF OF LAWN AREA: 16,779 SF
 SF OF MULCH AREAS: 7,725 SF

SITE DEVELOPMENT SUMMARY:

TOTAL SITE ACREAGE: 2.53 AC
 TOTAL DISTURBED ACREAGE: ±2.81 AC
 NUMBER OF LOTS: 2 LOTS
 PARCEL IDENTIFICATION NUMBER: PARCEL 1: PID 009A00000660000
 PARCEL 2: PID 009A00000670000

SITE ZONING: PARCEL 1: GB - GENERAL BUSINESS
 PARCEL 2: GB - GENERAL BUSINESS

BUILDING SETBACKS:
 FRONT: 30 FT
 SIDE: 20 FT FROM STREET SIDE
 REAR: 15 FT
 25 FT

LOT WIDTH: 371 FT

MAXIMUM HEIGHT OF BUILDING: 35 FT

WATERSHED DISTRICT: MOYOCK RUN
 DEVELOPMENT DENSITY:

IMPERVIOUS PERCENTAGES:
 PRE-DEVELOPMENT: 6.67%
 POST-DEVELOPMENT: 83%
 BUILDING AREA: 6,372 SF
 VEHICULAR DRIVE ASPHALT AREA: 38,865 SF
 VEHICULAR DRIVE CONCRETE AREA: 22,600 SF

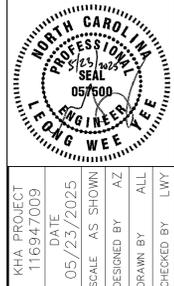


KIMLEY-HORN SHALL HAVE NO LIABILITY WHATSOEVER FOR ANY COSTS ARISING OUT OF THE CLIENT'S DECISION TO OBTAIN BIDS OR PROCEED WITH CONSTRUCTION BEFORE KIMLEY-HORN HAS ISSUED FINAL, FULLY-APPROVED PLANS AND SPECIFICATIONS. THE CLIENT ACKNOWLEDGES THAT ALL PRELIMINARY PLANS ARE SUBJECT TO SUBSTANTIAL REVISION UNTIL PLANS ARE FULLY APPROVED AND ALL PERMITS OBTAINED.

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No.	REVISIONS	DATE	BY

Kimley-Horn
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KHA PROJECT: 116947009
 DATE: 05/23/2025
 SCALE: AS SHOWN
 DESIGNED BY: AZ
 DRAWN BY: ALL
 CHECKED BY: LWY

COVER SHEET

MOYOCK MILLS ROAD
 PREPARED FOR
FRONTIER

NORTH CAROLINA
 MOYOCK

PROJECT OWNER AND CONSULTANT INFORMATION			
DEVELOPER: FRONTIER DEVELOPMENT 2850 SW 27TH AVENUE, SUITE 300 MIAMI, FL 33133 PHONE (305) 692-9992 CONTACT: JONATHAN ESCARZA	ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. 421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601 EOR: JEREMY YEE, P.E. TEL: 757-548-7306 EMAIL: JEREMY.YEE@KIMLEY-HORN.COM CONTACT: ALLIE ZURAS TEL: 757-350-4608 EMAIL: ALLIE.ZURAS@KIMLEY-HORN.COM	SURVEYOR: TIMMONS GROUP 1805 WEST CITY DRIVE, UNIT E ELIZABETH CITY, NC 27909 PHONE (252) 621-5030 CONTACT: JASON MIZELLE	LANDSCAPE ARCHITECT: KIMLEY-HORN AND ASSOCIATES, INC. 4525 MAIN STREET, SUITE 1000 VIRGINIA BEACH, VA 23462 CONTACT: JOE MATHEWS TEL: (757) 213-8600 EMAIL: JOE.MATHEWS@KIMLEY-HORN.COM



GEOMETRIC CONTROL
 HORIZONTAL DATUM:
 NAD 83 (2011)
 VERTICAL DATUM:
 NAVD 88
 DRAWING UNITS:
 U.S. SURVEY FEET

CITY SUBMITTALS		
REVISION NO.	DATE	REMARKS

SHEET NUMBER
CA001

Plotted By: Gurasky, Corree. Sheet: S01:MOYOCK MILLS ROAD - Layout: COVER. May 23, 2025. 12:13:12pm. K:\web-ctrl\WAWA\116947009 - wawa moyock mills road\CADD\plansheets\CA001 - Cover.dwg
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Plotted By: Curasky, Corriea, Sheet: S01-MOYOCK MILLS ROAD, Layout: GENERAL NOTES, Mdy: 23/02/2025, 12:13:20pm, K:\as-built\WAWA\116947009 - wawa moyock mills road\CAD\plannotes\CA002 - General Notes.dwg
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GENERAL NOTES

1. ALL NECESSARY PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR MUST OBTAIN ALL PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF PERMITS COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY REGULATORY AGENCY REPRESENTATIVES.
3. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.
4. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
5. **SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY THOMAS GROUP. ALL INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.**
6. **CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODE AND THE OWNER.**
7. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE STATE DEPARTMENT OF TRANSPORTATION STRUCTURE STANDARDS AND REGULATIONS (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONDUCT THE WORK AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
9. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES AND O.S.H.A. STANDARDS. IN THE EVENT THE REGULATIONS DO NOT AGREE, THE MOST STRINGENT SHALL GOVERN.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE SIGNS, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION'S SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID. AREAS TO BE DISTURBED SHALL BE IMPROVED PER THE CIVIL PLANS OR RESTORED TO THEIR ORIGINAL OR BETTER CONDITION. CONTRACTOR SHALL REPAIR ANY EXISTING FEATURES THAT ARE DAMAGED DURING CONSTRUCTION TO THE EXISTING OR BETTER CONDITION.
11. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
12. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK, NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO VERIFY SUCH REQUIREMENTS SHALL BE AT THE CONTRACTOR'S PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
14. ALL WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
15. TRAFFIC CONTROL ON ALL STATE, LOCAL, AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
16. CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION
17. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL REQUIREMENTS OF THE PROJECT ARE MET. NO FIRE ALARM OR SECURITY SYSTEMS SHALL BE NOTIFIED TO THE PROJECT. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.

CONSTRUCTION TESTING

1. **IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL TESTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.**
2. **IF DETERMINED BY THE OWNER, THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONSTRUCTION TESTING. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR REQUIRED CONSTRUCTION TESTING.**
3. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE TESTING LABORATORY AND THE METHOD OF SUCH TESTING SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE SPECIFICATIONS.
4. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
5. **EACH BACKFLOW PREVENTION ASSEMBLY IS REQUIRED TO BE TESTED BY A LICENSED AND JURISDICTIONALLY APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.**

AS-BUILTS/RECORD DRAWINGS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE CONCLUSION OF CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE PROJECT STATE WHOSE SERVICES ARE REQUIRED BY THE CONTRACTOR.
2. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SEALED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE PROJECT STATE DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS. THE RECORD DRAWINGS SHALL BE PREPARED TO THE SAME LEVEL OF DETAILS AS PROVIDED ON THE DESIGN DRAWINGS.**

GENERAL ACCESSIBILITY NOTES

1. THE CONTRACTOR SHALL REVIEW ALL APPLICABLE STATE AND LOCAL GUIDELINES AS THEY APPLY TO THE ACCESSIBILITY AND SIGNAGE.
2. ALL CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR TO BE IN COMPLIANCE WITH LOCALLY ADOPTED ACCESSIBILITY REGULATIONS. ANYTHING FOUND NOT IN COMPLIANCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED COMPLIANT WITH THE LATEST EDITION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN AS PUBLISHED BY THE DEPARTMENT OF JUSTICE, UNLESS AND EXCEPT IN AREAS WHERE AN APPROVED STATEMENT FROM A SITE ENGINEER, SURVEYOR, OR ARCHITECT VERIFIES THAT SITE CONDITIONS EXIST WHICH MAKE COMPLIANCE WITH THE ADA STANDARDS EXTREMELY DIFFICULT OR UNLESS THE TOPOGRAPHY OF THE SITE IS EXTREME AND ONLY ALTERNATE METHODS OF COMPLIANCE ARE POSSIBLE.
4. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
5. ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, TRAMPOLINE AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
6. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1:12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.
7. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ACCESSIBLE SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA COMPLIANCE ISSUES.

GENERAL EROSION CONTROL NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST CLEARLY DELINEATE AND MARK OFF AREAS TO BE PROTECTED, AS IDENTIFIED IN THE SHEET OR IN THE FIELD, INCLUDING BUT NOT LIMITED TO STREAMS/WETLANDS, NATURAL BUFFERS, TREE, HABITATS OF ENDANGERED/THREATENED SPECIES, HISTORIC PROPERTIES, ETC.)
2. **THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.**
3. BMPs PROPOSED FOR SITE DEVELOPMENT HAVE BEEN DESIGNED TO ADDRESS CONSTRUCTION STORMWATER RUNOFF. IN THE EVENT THE BMPs BECOME INEFFECTIVE AT PREVENTING SEDIMENT FROM LEAVING THE SITE, IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT ADDITIONAL BMPs THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN BMPs AS DESCRIBED IN THE GENERAL PERMIT. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY THE EROSION CONTROL INSPECTOR.
4. CONTRACTOR SHALL REVIEW THE GENERAL PERMIT PRIOR TO COMMENCING CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL KEEP A COPY OF THE APPROVED PLANS AND GENERAL PERMIT ON SITE AT ALL TIMES.
5. **GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND IS SUBJECT TO A FINE.**
6. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE STATE WHICH THE WORK IS PERFORMED.
7. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE STATE EROSION AND SEDIMENT CONTROL REGULATIONS.
8. ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
10. CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOWS OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
11. POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, DRAINAGE SYSTEM STRUCTURE, OR LANDSCAPING.
12. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMPs SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMPs SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO MAINTAIN CIVIL AND LANDSCAPE PLAN SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
13. BMPs HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE, SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUNOFF.
14. **THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION.**
15. **THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.**
16. **APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE APPLICABLE JURISDICTIONAL AGENCIES. CONTRACTOR SHALL MAINTAIN EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.**
17. ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA OR THE STATE OR LOCAL AGENCY REGULATIONS, SHALL BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802), AND AS REQUIRED BY THE GENERAL PERMIT.
18. THE CONTRACTOR SHALL MAINTAIN JURISDICTIONALLY REQUIRED BUFFERS OF UNDISTURBED NATURAL VEGETATION BETWEEN THE DISTURBED PORTIONS OF THE SITE AND SURFACES WATERS AT ALL TIMES. BUFFERS SHALL BE MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE REGULATIONS.
19. **PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL PAY FOR ALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.**
20. CONTRACTOR SHALL PLACE EROSION CONTROL BLANKET ON ALL SITE AREAS WITH SLOPES GREATER THAN 2:1, AND IN THE BOTTOM AND SIDE SLOPES OF ALL SWALES, UNLESS OTHERWISE NOTED ON THE PLANS.
21. ALL DRAINAGE SWALES MUST BE GRADED AND RIP-RAP MUST BE REPLACED AS REQUIRED TO CONTROL EROSION. RIP-RAP WILL CONSIST OF 50 - 125 POUND STONES PLACED AT ALL OUTFALLS, AND WHERE NOTED ON CONSTRUCTION DRAWINGS.
22. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED FOR ADDITIONAL CONTRACTOR LAYDOWN AREA. CONTRACTOR TO COORDINATE WITH ENGINEER DURING CONSTRUCTION. THE LIMITS OF DISTURBANCE SHOULD CONTAIN ANY ADDITIONAL LAYDOWN AREAS. IF ADDITIONAL LAYDOWN AREA IS NEEDED OUTSIDE THE LIMITS OF DISTURBANCE, A REVISED EROSION CONTROL PLAN SHOULD BE REVIEWED AND PERMITTED.
23. PUMPING SEDIMENT LADEN WATER INTO ANY STORMWATER FACILITY THAT IS NOT DESIGNATED TO BE A SEDIMENT TRAP, DRAINAGEWAY, OR OFF-SITE AREA EITHER DIRECTLY OR INDIRECTLY WITHIN THE CONSTRUCTION ASSEMBLY IS PROHIBITED. DURING Dewatering OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET. WATER REMOVED FROM TRAPS, BASINS, AND OTHER WATER HOLDING DEPRESSIONS OR EXCAVATIONS MUST FIRST PASS THROUGH A SEDIMENT CONTROL AND/OR FILTRATION DEVICE. WHEN Dewatering DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION.
24. ALL TEMPORARY STORMWATER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
25. SOIL STOCKPILES SHALL NOT BE LOCATED IN A DRAINAGE WAY, STOCKPILES, FLOOD PLAIN AREA, OR A DESIGNATED BUFFER. ALL STOCKPILES SHALL BE IMMEDIATELY STABILIZED AS REQUIRED BY THE GENERAL PERMIT.

STORMWATER NOTES

1. REFER TO GENERAL UTILITY NOTES FOR ADDITIONAL REQUIREMENTS PERTAINING TO UNDERGROUND UTILITY AND STORMWATER PIPE INSTALLATION.
2. **ALL NECESSARY PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR MUST OBTAIN ALL PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.**
3. PIPE LENGTHS, GRADES, ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE ONLY, AS DIRECTED BY THE ENGINEER. THEY MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN CONDITIONS.
4. **ALL STORM PIPE INSTALLED SHALL BE ADS-N-12 UNLESS SPECIFICALLY NOTED OTHERWISE. EXISTING STORMWATER PIPE MATERIALS, MODIFIED, DAMAGED OR DEFORMED, ETC. SHALL NOT BE REUSED UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.**
5. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENT AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
6. ALL PIPES SHALL BE BEDDED PER MANUFACTURER'S RECOMMENDATIONS.
7. **ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED WITH (4) SIDED BEARING HEAVY DUTY H-20 RATED TRAFFIC RIMS AND GRATES.**
8. **ALL CLEANOUT COVERS WITHIN THE PAVEMENT SECTIONS SHALL BE RATED FOR HEAVY DUTY TRAFFIC (H-20 RATED).**
9. WEEPHOLES ARE TO BE CONSTRUCTED IN ALL DRAINAGE STRUCTURES, A MINIMUM OF 1 WEEPHOLE PER STRUCTURE. WEEPHOLES ARE TO BE CONSTRUCTED IN THE BOTTOM 1/3 OF STRUCTURE AND COVERED ON THE OUTSIDE OF THE STRUCTURE BY A BAG MADE OF FILTER FABRIC AND FILLED WITH #76 STONE.
10. CONTRACTOR SHALL PROVIDE CATCH BASIN INLET PROTECTION ON ALL EXISTING AND PROPOSED INLETS UNTIL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
11. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.
12. GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING.
13. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION BETWEEN PROPOSED PAVEMENT AND EXISTING PAVEMENT AND STORM STRUCTURES.
14. DURING CONSTRUCTION AND AFTER FINAL GRADING, NO SURFACE WATER RUNOFF MAY BE DIRECTED TO ADJACENT PROPERTIES, AREAS, OR INFILTRATION AREAS. ALL RUNOFF MUST BE DIRECTED TO APPROVED DRAINAGE FACILITIES OR BE RETAINED ON SITE. ALL RUNOFF FROM THE SITE, BOTH DURING AND AFTER CONSTRUCTION, MUST BE FREE OF POLLUTANTS, INCLUDING SEDIMENT, PRIOR TO DISCHARGE.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS AND PAY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE APPROPRIATE AUTHORITIES. THESE FEES SHALL BE INCLUDED WITH THE BID. THE CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND ACQUIRE APPROPRIATE PERMITS AS REQUIRED PRIOR TO THE COMMENCEMENT OF DEMOLITION.
2. DEMOLITION AS DEPICTED ON THE DEMOLITION PLAN IS INTENDED TO DESCRIBE GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY PRIOR TO WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND LAWFUL DISPOSAL OF ALL STRUCTURES, PAVING, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL AS NECESSARY.
4. ASBESTOS OR ANY OTHER HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR ONLY AFTER NOTIFICATION OF THE ENGINEER AND AUTHORIZATION TO PROCEED IS GIVEN BY THE OWNER.
5. THE CONTRACTOR SHALL PUMP OUT BUILDING FUEL AND WASTE OIL TANKS (IF ANY ARE ENCOUNTERED) AND REMOVE FUEL TO AN APPROVED DISPOSAL AREA BY AN APPROPRIATELY LICENSED WASTE OIL HANDLING CONTRACTOR IN STRICT ACCORDANCE WITH FEDERAL AND STATE REQUIREMENTS ONLY AFTER NOTIFICATION OF THE ENGINEER AND AUTHORIZATION TO PROCEED IS GIVEN BY THE OWNER.
6. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO ALL EXISTING FACILITIES AND OUTLOTS AT ALL TIMES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE SERVICE PROVIDERS AND COORDINATION THROUGH THE PROPERTY OWNER(S). THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
7. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
8. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE ITEMS SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
9. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. APPROPRIATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
10. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONTRACTOR SHALL CONSULT THE ENGINEER AND OWNER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
11. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE OWNER.
12. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING BUSINESSES AND PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING IMPROVEMENTS AND CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH THE OWNERS/ LEASEES/ PRIOR TO ANY CONSTRUCTION TO ESTABLISH CUSTOMER ACCESS AND TRAFFIC FLOW DURING ALL PHASES.
13. SHOULD CONSTRUCTION ACTIVITIES DAMAGE EXISTING FEATURES, THE CONTRACTOR SHALL REPLACE THE FEATURES WITH NEW MATERIALS, DANGEROUS TO ANY EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACES, FINISHED SURFACES TO BE REMOVED OR DEMOLISHED SHALL BE CUT ALONG LINES OF JOINTS WHICH WILL PERMIT A NEAT SURFACE WHEN RESTORED. SAW CUT AT INTERFACE OF PAVEMENT OR CURB TO REMAIN. SAW CUT EXISTING PAVEMENT AT THE RIGHT-OF-WAY. SAW CUT DEPTH SHALL BE MADE FULL DEPTH THROUGH THE EXISTING PAVEMENT. DISCARDED PAVEMENT SHALL BE REMOVED WITHOUT UNDERMINING THE EXISTING PAVEMENT. IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
15. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL. TO ENSURE SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE. CONTRACTOR SHALL COORDINATE PHASE ALL CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF THE BUILDING AND UTILITY INTERUPTIONS WITH THE PROPERTY OWNERS AND UTILITY PROVIDERS TO MINIMIZE DISTURBANCE AND INCONVENIENCE.
16. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR.
17. ANY WATER WELLS ENCOUNTERED ARE TO BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY AND PROPERLY ABANDONED BY A LICENSED WELL DRILLER PER LOCAL AND STATE CODE.
18. ANY SEPTIC SYSTEMS ENCOUNTERED SHALL BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY AND SHALL BE PROPERLY DEMOLISHED PER LOCAL AND STATE CODE.
19. **ALL MONITORING WELLS ENCOUNTERED ARE TO BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY AND SHALL BE PROPERLY PROTECTED UNLESS OTHERWISE NOTED.**
20. **CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY**

GENERAL PAVING NOTES

1. **CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION BETWEEN PROPOSED PAVEMENT, EXISTING PAVEMENT AND ANY STRUCTURES.**
2. THE PROPOSED SPOT ELEVATIONS SHOWN ARE FINISHED ELEVATIONS INCLUDING ASPHALT AND CONCRETE. REFER TO PAVEMENT SECTIONS AND CURB DETAILS TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
3. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL REVIEW THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER PRIOR TO PAVING.
4. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
5. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTIONAL RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR STATE DEPT. OF TRANSPORTATION SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
6. ALL ON-SITE STRIPING IS TO BE PAINTED, UNLESS OTHERWISE NOTED. ALL STRIPING IN PUBLIC RIGHT-OF-WAY TO BE THERMOPLASTIC STRIPING.
7. TRANSVERSE EXPANSION JOINTS ARE TO BE PROVIDED IN CONCRETE SIDEWALKS AND COMBINED WALKS/CURBS WHERE SHOWN AND AT INTERVALS NOT TO EXCEED 12 X THE WIDTH OF THE WALK.
8. EXPANSION JOINTS SHALL BE INSTALLED IN CONCRETE PAVEMENTS AND WALKS AT ALL LOCATIONS WHERE PAVEMENTS AND WALKS ABUT A VERTICAL SURFACE SUCH AS A CURB, WALL, COLUMN, ETC.
9. CONSTRUCTION JOINTS SHALL BE PROVIDED AT EQUAL INTERVALS BETWEEN EXPANSION JOINTS IN CONCRETE WALKS. INSTALL CONSTRUCTION JOINTS AS SHOWN BUT IN NO CASE AT INTERVALS GREATER THAN 15 X THE WIDTH OF THE WALK.
10. CONTRACTOR SHALL COORDINATE PAVING IMPROVEMENTS TO AVOID TIE MARKS FROM CONSTRUCTION ACTIVITY. FINAL PAVING SHALL BE AS SMOOTH AS POSSIBLE AND FREE FROM ANY CRACKS, SCRAPES, GOUGES, TIE MARKS, ETC. CAUSED DURING CONSTRUCTION.
11. ALL NEW CONCRETE SHALL BE DOWELED INTO ALL EXISTING CONCRETE (PAVING, SIDEWALKS, CURB, ETC.) ALL STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH FINAL PAVEMENT.

GENERAL UTILITY NOTES

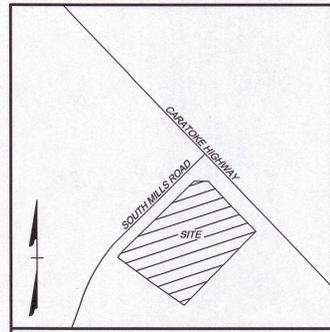
1. **CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN ENCROACHMENT AGREEMENT PERMIT, AS REQUIRED, TO CONSTRUCT UTILITY CONNECTIONS.**
2. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
3. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR CONTINUATION OF UTILITIES WITHIN 5 FEET OF STRUCTURES.
4. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC OR PRIVATE UTILITIES (SHOWN OR NOT SHOWN) WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CONTACT 811 FOR THE IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE.
5. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOW OR TEMPORARY BRACING AND SHORING OF SAME, IF IT IS NECESSARY TO SHORE, BRACE, SWAY OR RELOCATE A UTILITY. THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
6. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY FOR DIRECTIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES AND SERVICES. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY PROVIDER FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE. THE CONTRACTOR SHALL COORDINATE ANY INTERRUPTION OF UTILITY SERVICE WITH OWNER(S) AND RESPECTIVE UTILITY PROVIDER(S).
8. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
9. CONTRACTOR SHALL SAW CUT, REMOVE, AND REPLACE ASPHALT PAVEMENT AS NECESSARY TO INSTALL UNDERGROUND ELECTRIC, TELEPHONE, SEWER, WATER, AND COMMUNICATION UTILITIES. PAVEMENT SHALL BE REPAIRED TO ORIGINAL FINISH. IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION UNLESS OTHERWISE SHOWN.
10. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL POWER COMPANY STANDARDS.
11. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES.
12. PRESSURE UTILITY MAINS AND SERVICE LINES MAY NEED TO BE INSTALLED AT A DEPTH GREATER THAN THAT SPECIFIED OR SHOWN ON THE DRAWINGS TO CLEAR EXISTING AND PROPOSED CROSSING UTILITIES. IN SUCH CASES, THE CONTRACTOR SHALL INSTALL VERTICAL BENDS AS REQUIRED TO ACHIEVE APPROPRIATE CLEARANCE BETWEEN THE CROSSING UTILITY GRADES.
13. WHERE GRADE MODIFICATIONS (CUT OR FILL) ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.
14. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
15. **ALL PROPOSED STUBS SHALL BE CAPPED AND SHALL BE PROVIDED WITH FIELD MARKERS.**
16. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR SITE LIGHTING PER SITE LIGHTING PLAN (BY OTHERS).
17. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR IRRIGATION PER IRRIGATION PLAN (BY OTHERS).
18. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, SURVEYED, AND APPROVED BEFORE BACKFILLING.
19. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
20. **ALL CONDUIT SHALL BE INSTALLED PER CURRENT NATIONAL ELECTRIC CODE (N.E.C.) AND MANUFACTURER REQUIREMENTS.**
21. ALL UTILITIES SHOULD BE KEPT TEN (10) FEET (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE. OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPES UNLESS WHERE SPECIFIED.
22. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
23. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATER TIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
24. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. MATERIALS ARE TO BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY DUCTILE IRON PIPE FITTINGS, ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER, OWNER, OR INSPECTOR WOULD BE UNFIT FOR USE. SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
25. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
26. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
27. UNDERGROUND WATER AND SANITARY SEWER LINES SHALL BE SURVEYED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE PROJECT STATE PRIOR TO BACK FILLING.
28. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION, PRESSURE TESTS, AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDERS, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
29. **IF DETERMINED NECESSARY BY THE LOCAL JURISDICTION, THE CONTRACTOR SHALL ABANDON EXISTING WATER METERS, CUT THE CORPORATION STOP OFF, AND AIR-CAP THE SERVICES.**
30. UNDERGROUND UTILITY, INCLUDING STORMWATER PIPES, SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - A. NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1:2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.
 - B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

TREE PROTECTION NOTES

1. THE CONTRACTOR SHALL PROTECT ALL TREES AND SHRUBS OUTSIDE OF CUT/FILL LINES. IN ADDITION TO THOSE THAT RECEIVE TREE/SHRUB PROTECTION BARRIERS, THE CONTRACTOR IS ALSO REQUESTED TO SAVE ALL OTHER EXISTING TREES AND SHRUBS WHERE POSSIBLE.
2. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE PROTECTION ZONE. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
3. NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1:2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.
4. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING OR CONSTRUCTION BEGINS AND IS NOT TO BE REMOVED UNTIL AFTER CONSTRUCTION.
5. PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED TO PROTECT PROPERTIES, AREAS, OR INFILTRATION AREAS. ALL WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

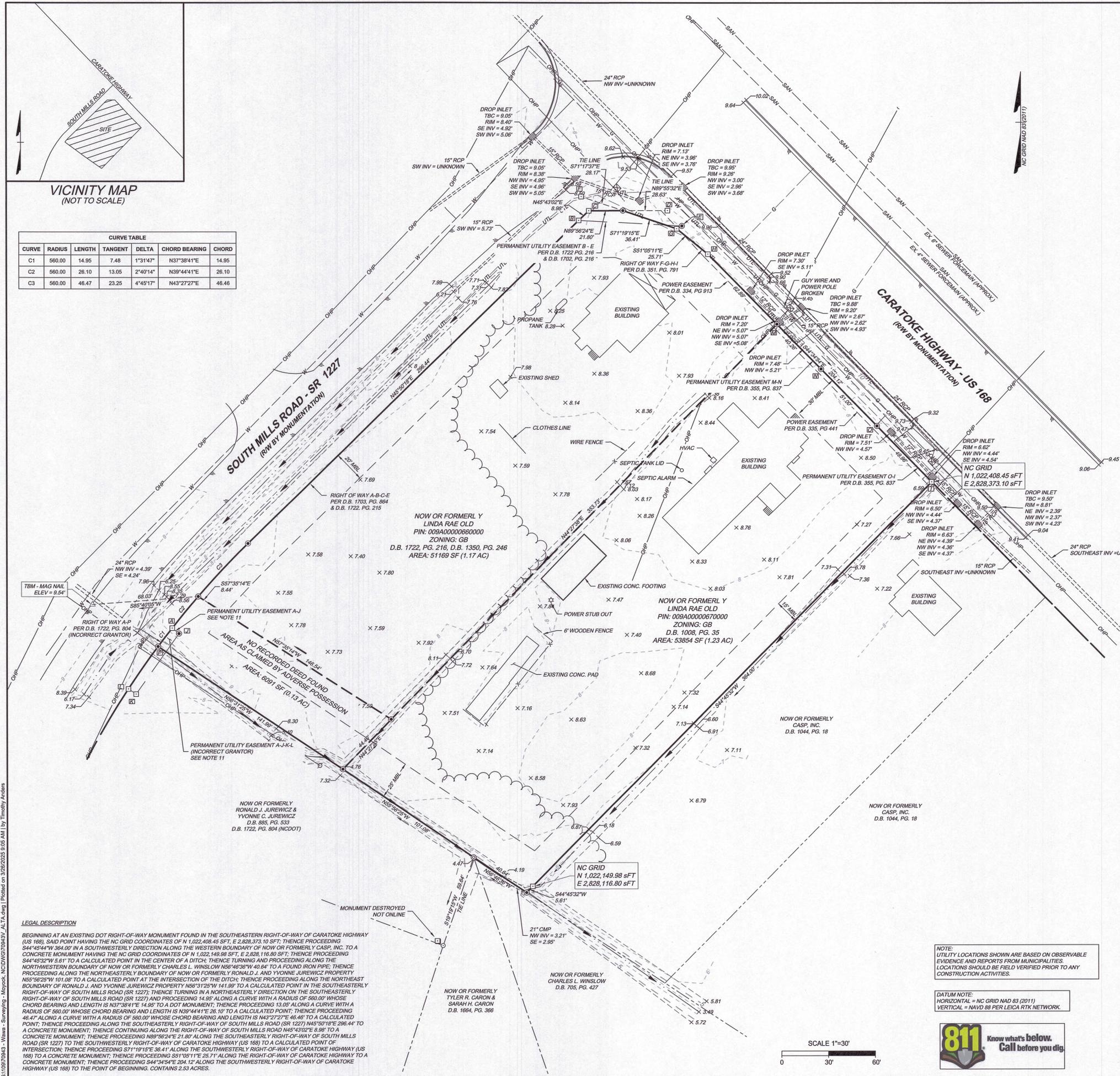
GENERAL GRADING NOTES

1. ALL NECESSARY PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR MUST OBTAIN ALL PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. **THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.**
3. **ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK, AND THIS MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.**
4. **CONTRACTOR SHALL REVIEW, UNDERSTAND AND IMPLEMENT ALL REQUIRED EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO ANY DISTURBANCE.**
5. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WATERSHEDS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
6. **THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR BLASTING ROCK IF BLAST ROCK IS ENCOUNTERED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL BLASTING AND SAFETY REQUIREMENTS**
7. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SEEDED.
8. **THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE GEOTECHNICAL ENGINEER'S SPECIFICATIONS. FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.**
9. **THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL SAID ITEMS.**
10. **FIELD ADJUSTMENTS OF ELEVATIONS OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. MAXIMUM HEIGHT OF ADJUSTING RINGS SHALL NOT EXCEED 12-INCHES. ADJUSTMENTS OF CASTINGS WHERE THE TOTAL HEIGHT OF ADJUSTING RINGS WOULD EXCEED 12 INCHES SHALL BE MADE BY REPLACING THE CONE AND/OR BARREL SECTION OF THE STRUCTURE.**
11. **WHERE GRADE MODIFICATIONS ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.**
12. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
13. IF Dewatering IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
14. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE ENGINEER.
15. FIELD DESIGN TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO STATE DEPARTMENT OF TRANSPORTATION STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
16. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT AN ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
17. ALL CUT OR FILL SLOPES SHALL BE 3 (HORIZONTAL) : 1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER FOR APPROPRIATE SOIL STABILIZATION ON ALL SLOPES STEEPER THAN 3:1. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
18. SEED MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO



VICINITY MAP
(NOT TO SCALE)

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C1	560.00	14.95	7.48	1°31'47"	N37°38'41"E	14.95
C2	560.00	26.10	13.05	2°40'14"	N39°44'41"E	26.10
C3	560.00	46.47	23.25	4°45'17"	N43°27'27"E	46.46



LEGAL DESCRIPTION
 BEGINNING AT AN EXISTING DOT RIGHT-OF-WAY MONUMENT FOUND IN THE SOUTHEASTERN RIGHT-OF-WAY OF CARATOKE HIGHWAY (US 168), SAID POINT HAVING THE NC GRID COORDINATES OF N 1,022,408.45 SFT, E 2,828,373.10 SFT; THENCE PROCEEDING S44°45'44"W 364.00' IN A SOUTHWESTERLY DIRECTION ALONG THE WESTERN BOUNDARY OF NOW OR FORMERLY CASP, INC. TO A CONCRETE MONUMENT HAVING THE NC GRID COORDINATES OF N 1,022,149.98 SFT, E 2,828,116.80 SFT; THENCE PROCEEDING S44°45'32"W 5.61' TO A CALCULATED POINT IN THE CENTER OF A DITCH; THENCE TURNING AND PROCEEDING ALONG THE NORTHWESTERN BOUNDARY OF NOW OR FORMERLY CHARLES L. WINSLOW N89°46'36"W 40.64' TO A FOUND IRON PIPE; THENCE PROCEEDING ALONG THE NORTHEASTERLY BOUNDARY OF NOW OR FORMERLY RONALD J. AND YVONNE JUREWICZ PROPERTY N65°56'25"W 101.88' TO A CALCULATED POINT AT THE INTERSECTION OF THE DITCH; THENCE PROCEEDING ALONG THE NORTHEAST BOUNDARY OF RONALD J. AND YVONNE JUREWICZ PROPERTY N66°31'22"W 141.89' TO A CALCULATED POINT IN THE SOUTHEASTERLY RIGHT-OF-WAY OF SOUTH MILLS ROAD (SR 1227); THENCE TURNING IN A NORTHEASTERLY DIRECTION ON THE SOUTHEASTERLY RIGHT-OF-WAY OF SOUTH MILLS ROAD (SR 1227) AND PROCEEDING 14.95' ALONG A CURVE WITH A RADIUS OF 560.00' WHOSE CHORD BEARING AND LENGTH IS N37°38'41"E 14.95' TO A DOT MONUMENT; THENCE PROCEEDING 13.05' ALONG A CURVE WITH A RADIUS OF 560.00' WHOSE CHORD BEARING AND LENGTH IS N39°44'41"E 26.10' TO A CALCULATED POINT; THENCE PROCEEDING 46.47' ALONG A CURVE WITH A RADIUS OF 560.00' WHOSE CHORD BEARING AND LENGTH IS N43°27'27"E 46.46' TO A CALCULATED POINT; THENCE PROCEEDING ALONG THE SOUTHEASTERN RIGHT-OF-WAY OF SOUTH MILLS ROAD (SR 1227) N45°43'02"E 8.98' TO A CONCRETE MONUMENT; THENCE CONTINUING ALONG THE RIGHT-OF-WAY OF SOUTH MILLS ROAD N45°43'02"E 8.98' TO A CONCRETE MONUMENT; THENCE PROCEEDING N89°56'24"E 21.80' ALONG THE SOUTHEASTERLY RIGHT-OF-WAY OF SOUTH MILLS ROAD (SR 1227) TO THE SOUTHWESTERLY RIGHT-OF-WAY OF CARATOKE HIGHWAY (US 168) TO A CALCULATED POINT OF INTERSECTION; THENCE PROCEEDING S71°19'15"E 36.41' ALONG THE SOUTHWESTERLY RIGHT-OF-WAY OF CARATOKE HIGHWAY (US 168) TO A CONCRETE MONUMENT; THENCE PROCEEDING S51°05'11"E 25.71' ALONG THE RIGHT-OF-WAY OF CARATOKE HIGHWAY TO A CONCRETE MONUMENT; THENCE PROCEEDING S44°34'54"E 204.12' ALONG THE SOUTHWESTERLY RIGHT-OF-WAY OF CARATOKE HIGHWAY (US 168) TO THE POINT OF BEGINNING. CONTAINS 2.53 ACRES.

I, JASON A. MIZELLE, PLS, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED AT THE 90 PERCENT CONFIDENCE LEVEL (2 SIGMA) TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THE HORIZONTAL ACCURACY IS 0.15 FT, THAT THE VERTICAL ACCURACY IS 0.10 FT AND THAT THE ORIGINAL DATA WAS OBTAINED ON DECEMBER 27, 2024; THAT THE SURVEY WAS COMPLETED ON DECEMBER 30, 2024; THAT THE CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD; AND ALL COORDINATES ARE BASED ON NAD83/1983; AND ALL ELEVATIONS ARE BASED ON NAVD83; THAT THIS MAP WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA, WITNESS MY ORIGINAL SIGNATURE, REG. NUMBER, AND SEAL THIS 10TH DAY OF JANUARY 2025; REVISED 28TH DAY OF MARCH 2025.

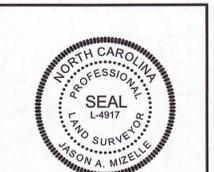
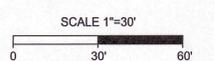
DATE OF MAP: JANUARY 16, 2024; REVISED MARCH 26, 2025
 TITLE COMMITMENT NO. S1340597 - DATED 02/18/25
 SCHEDULE B-2 EXCEPTIONS:
 1. NOT A MATTER OF SURVEY.
 2. NOT A MATTER OF SURVEY.
 3. MATTERS SHOWN HEREON.
 4. NOT A MATTER OF SURVEY.
 5. EASEMENT TO VIRGINIA ELECTRIC AND POWER COMPANY PER D.B. 344, PG. 913 AND PER D.B. 345, PG. 441 ARE SHOWN HEREON.
 6. MATTERS SHOWN HEREON.
 7. MATTERS SHOWN HEREON.
 8. NOT A MATTER OF SURVEY.

NOTES:
 1. ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES.
 2. AREA COMPUTED BY USING COORDINATE METHOD.
 3. THE PROPERTY IS LOCATED IN FLOOD ZONE X AS SHOWN ON FLOOD MAP PANEL 3721802200K, DATED DECEMBER 12, 2018. SUBJECT TO CHANGE BY FEMA.
 4. ELEVATIONS SHOWN ARE NAVD 88 DATUM BASED LEICA RTK NETWORK.
 5. UTILITY LOCATIONS SHOWN ARE BASED ON OBSERVABLE EVIDENCE AND REPORTS FROM MUNICIPALITIES. LOCATIONS SHOULD BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
 6. CURRENT OWNER: PIN: 009A0000060000 LINDA RAE OLD 237 BRUMSEY ROAD MOYOCK, NC 27858 D.B. 1722, PG. 216
 PIN: 009A00000670000 LINDA RAE OLD 237 BRUMSEY ROAD MOYOCK, NC 27858 D.B. 1008, PG. 35
 7. SITE ADDRESS: 468 & 472 CARATOKE HIGHWAY MOYOCK, NC 27858
 8. SITE ZONING: GB BUILDING SETBACKS (MBL) 20' FRONT 10' SIDE 30' G-2 STREET SETBACK 20' SIDE CORNER 25' REAR MAXIMUM BUILDING HEIGHT: 35' MAXIMUM LOT COVERAGE: 65%
 9. RIGHT OF WAY A-B-C-E PER D.B. 1703, PG. 864 AND D.B. 1722, PG. 215 PER MONUMENTATION
 10. RIGHT OF WAY F-G-H PER D.B. 351, PG. 791 PER MONUMENTATION
 11. PERMANENT UTILITY EASEMENT IS RECORDED ALONG THE LINE A TO I PER D.B. 1722, PG. 216; AN EASEMENT RECORDED FOR RONALD J. JUREWICZ AND YVONNE C. JUREWICZ, OVERLAPS AT THE SOUTHEAST CORNER OF THE PROPERTY, LINES A TO I TO J TO K.
 12. POSSIBLE WATER, GAS, AND POWER CONNECTIONS TO EXISTING BUILDINGS, UNLOCATED AND SUBSURFACE LOCATION N WAS NOT PERFORMED.
 13. SEPTIC FIELDS UNMARKED AND UNLOCATED.

LEGEND
 MONUMENT FOUND
 IRON PIPE (IP)
 IRON ROD FOUND (IRF)
 CALCULATED POINT
 SIGN / MARKER
 SIGNAL POLE
 UTILITY POLE
 GUY ANCHOR
 ELECTRICAL VAULT
 ELECTRIC BOX
 LIGHT POLE
 TELECOM VAULT
 TELECOM PEDESTAL
 WATER METER
 WATER SPIGOT
 FIRE HYDRANT
 WATER VALVE
 MONITORING WELL
 DROP INLET
 CLOTHES LINE
 ELECTRICAL STUB OUT
 PROPERTY BOUNDARY
 PROPERTY BOUNDARY TO BE VACATED
 RIGHT OF WAY LINES
 ADJACENT PROPERTY LINES
 PERMANENT UTILITY EASEMENT
 PROPERTY TIES
 EDGE OF PAVEMENT
 EDGE OF CONCRETE
 FENCE
 OVERHEAD POWER
 GAS
 UNDERGROUND UTILITY
 WATERLINE
 CENTER OF DITCH
 TOP OF BANK
 MAJOR CONTOUR
 MINOR CONTOUR
 STORM PIPE
 DRAINAGE DIRECTION
 TREELINE

NOTE:
 UTILITY LOCATIONS SHOWN ARE BASED ON OBSERVABLE EVIDENCE AND REPORTS FROM MUNICIPALITIES. LOCATIONS SHOULD BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION ACTIVITIES.

DATUM NOTE:
 HORIZONTAL = NC GRID NAD 83 (2011)
 VERTICAL = NAVD 88 PER LEICA RTK NETWORK.



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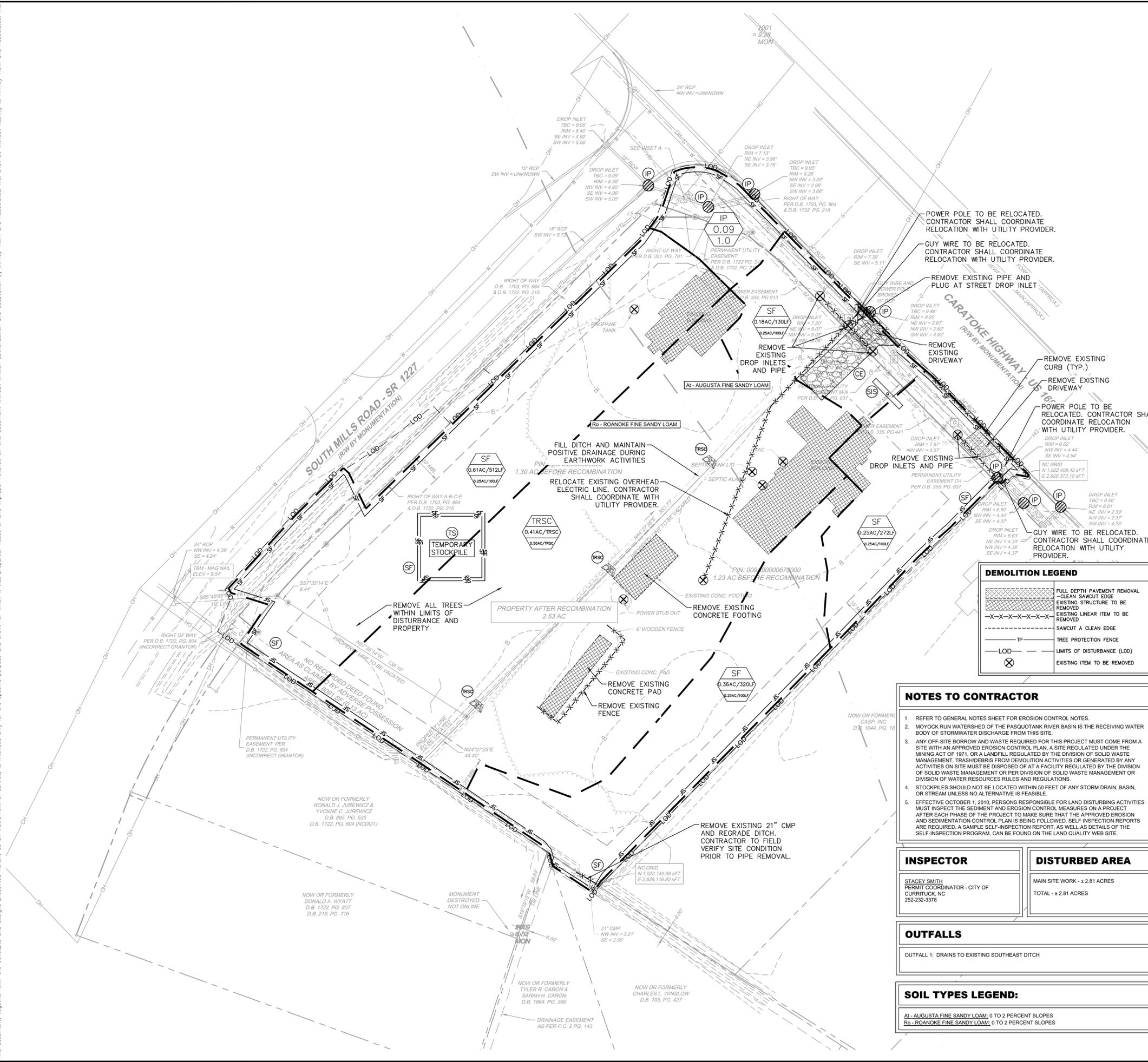
YOUR VISION ACHIEVED THROUGH OURS.
 DATE 03/25/2025
 DRAWN BY TRA
 DESIGNED BY N/A
 CHECKED BY JAM
 SCALE 1" = 30'

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1552
 ALTA SURVEY FOR
FRONTIER DEVELOPMENT
 BEING BOUNDARY SURVEY FOR LINDA R. OLD PROPERTY DESCRIBED IN D.B. 1722, PG. 216; D.B. 1350, PG. 246; D.B. 1008, PG. 35
 MOYOCK TOWNSHIP, CURRITUCK COUNTY, NORTH CAROLINA

REVISION DESCRIPTION
 DATE 02/12/2025
 03/25/2025
 03/26/2025
 03/26/2025

JOB NO. 70943
 SHEET NO. ALTA

Plotted By: Curasky, Carrie. Sheet: MOYOCK MILLS ROAD. Layout: DEMO & ES. May 23, 2025. 12:13:47pm. K:\web-ct\1\WAMA\116947009 - wava moyock mills road\CADD\plansheets\CE100 DEMO & ES.dwg. This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse or improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

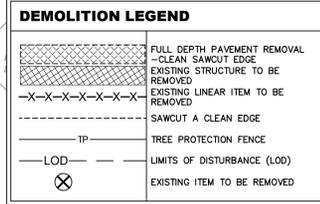


- ### DEMOLITION AND EROSION CONTROL GENERAL NOTES
- THE DEMOLITION AND EROSION CONTROL PLAN IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION AND FOR THE DEMOLITION, REMOVAL, OR RELOCATIONS OF ITEMS IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
 - REMOVE ALL EXISTING ITEMS WITHIN THE LIMITS OF DISTURBANCE UNLESS OTHERWISE INDICATED INCLUDING UNDERGROUND UTILITIES, PAVING, UNDERGROUND STORAGE TANKS, AND ANY OTHER EXISTING IMPROVEMENTS.
 - CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES REGARDING REMOVAL/DISCONNECTION OF UTILITY LINES TO ENSURE SERVICES TO OTHER PROPERTIES ARE NOT INTERRUPTED. CONTRACTOR TO FOLLOW UTILITY SAFETY AND OSHA REGULATIONS.
 - CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING THE COURSE OF CONSTRUCTION.
 - THE CONTRACTOR SHALL APPLY PERMANENT SOIL STABILIZATION TO ALL DENuded OR DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY STABILIZATION SHALL BE APPLIED TO ANY DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 14 DAYS. SOIL STABILIZATION MEASURES INCLUDE VEGETATIVE ESTABLISHMENT AND MULCHING.
 - ALL EXISTING MONITORING WELLS MUST BE ABANDONED AND CLOSED PER NCEQ REGULATIONS.
 - CONTRACTOR TO COORDINATE THE CONSTRUCTION SCHEDULE AND INTERRUPTION WITH THE NEIGHBOR PROPERTY OWNER IN ADVANCE.
 - PAVEMENT REMOVAL TO BE PHASED TO MAINTAIN CROSS ACCESS TO ADJACENT ALDI. MINIMUM ONE LANE OF TRAFFIC MUST BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.

- ### NOTE TO CONTRACTOR
- CONTRACTOR SHALL TAKE EXTREME CARE WHEN WORKING AROUND EXISTING UTILITIES. CONTRACTOR SHALL REPAIR ANY DAMAGED FEATURES/UTILITIES TO THAT OF EXISTING OR BETTER CONDITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL REPAIRS TO ANY DAMAGED ROADWAYS, CURB AND GUTTER, ASPHALT, ETC.
- CONTRACTOR SHALL COMPLETELY REMOVE ALL FEATURES WITHIN THE LIMITS OF CONSTRUCTION / OVERALL PROJECT BOUNDARY IN ORDER TO CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN IN THESE PLANS.

- ### ALERT TO CONTRACTOR:
- PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM CEC AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CEC AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

- ### TREE PROTECTION NOTES
- THE CONTRACTOR SHALL PROTECT ALL TREES AND SHRUBS OUTSIDE OF CUTFILL LINES. IN ADDITION TO THOSE THAT RECEIVE TREE/SHRUB PROTECTION BARRIERS, THE CONTRACTOR IS ALSO REQUESTED TO SAVE ALL OTHER EXISTING TREES AND SHRUBS WHERE POSSIBLE.
 - WHEN ROOT PRUNING IS NECESSARY, CUT ROOTS CLEANLY USING A DISC TRENCHER AND IMMEDIATELY COVER ALL ROOT CUT SURFACES LARGER THAN TWO INCHES IN DIAMETER WITH TREE WOUND DRESSING. USE PL WOOD FORMS WHEN TREE ROOTS ARE ADJACENT TO PROPOSED CURB & GUTTER OR SIDEWALK.
 - NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE PROTECTION ZONE. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
 - NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/UNGRADED AREAS.
 - TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING OR CONSTRUCTION BEGINS AND IS NOT TO BE REMOVED UNTIL AFTER CONSTRUCTION.



- ### NOTES TO CONTRACTOR
- REFER TO GENERAL NOTES SHEET FOR EROSION CONTROL NOTES.
 - MOYOCK RUN WATERSHED OF THE PASQUOTANK RIVER BASIN IS THE RECEIVING WATER BODY OF STORMWATER DISCHARGE FROM THIS SITE.
 - ANY OFF-SITE BORROW AND WASTE REQUIRED FOR THIS PROJECT MUST COME FROM A SITE WITH AN APPROVED EROSION CONTROL PLAN AS SITE REGULATED UNDER THE MINING ACT OF 1971, OR A LANDFILL REGULATED BY THE DIVISION OF SOLID WASTE MANAGEMENT. TRASH/DEBRIS FROM DEMOLITION ACTIVITIES OR GENERATED BY ANY ACTIVITIES ON SITE MUST BE DISPOSED OF AT A FACILITY REGULATED BY THE DIVISION OF SOLID WASTE MANAGEMENT OR PER DIVISION OF SOLID WASTE MANAGEMENT OR DIVISION OF WATER RESOURCES RULES AND REGULATIONS.
 - STOCKPILES SHOULD NOT BE LOCATED WITHIN 50 FEET OF ANY STORM DRAIN, BASIN, OR STREAM UNLESS NO ALTERNATIVE IS FEASIBLE.
 - EFFECTIVE OCTOBER 1, 2010, PERSONS RESPONSIBLE FOR LAND DISTURBING ACTIVITIES MUST INSPECT THE SEDIMENT AND EROSION CONTROL MEASURES ON A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. SELF INSPECTION REPORTS ARE REQUIRED. A SAMPLE SELF-INSPECTION REPORT, AS WELL AS DETAILS OF THE SELF-INSPECTION PROGRAM, CAN BE FOUND ON THE LAND QUALITY WEB SITE.

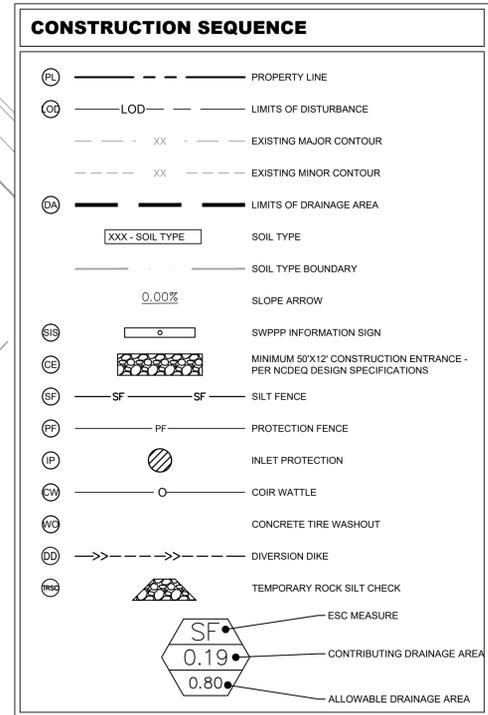
INSPECTOR	DISTURBED AREA
STACEY SMITH PERMIT COORDINATOR - CITY OF CURRITUCK, NC 252-232-3378	MAIN SITE WORK - ± 2.81 ACRES TOTAL - ± 2.81 ACRES

OUTFALLS

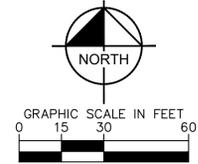
OUTFALL 1: DRAINS TO EXISTING SOUTHEAST DITCH

SOIL TYPES LEGEND:

AI - AUGUSTA FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES
 R0 - ROANOKE FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES

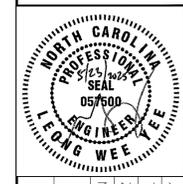


CAUTION!!
 CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.



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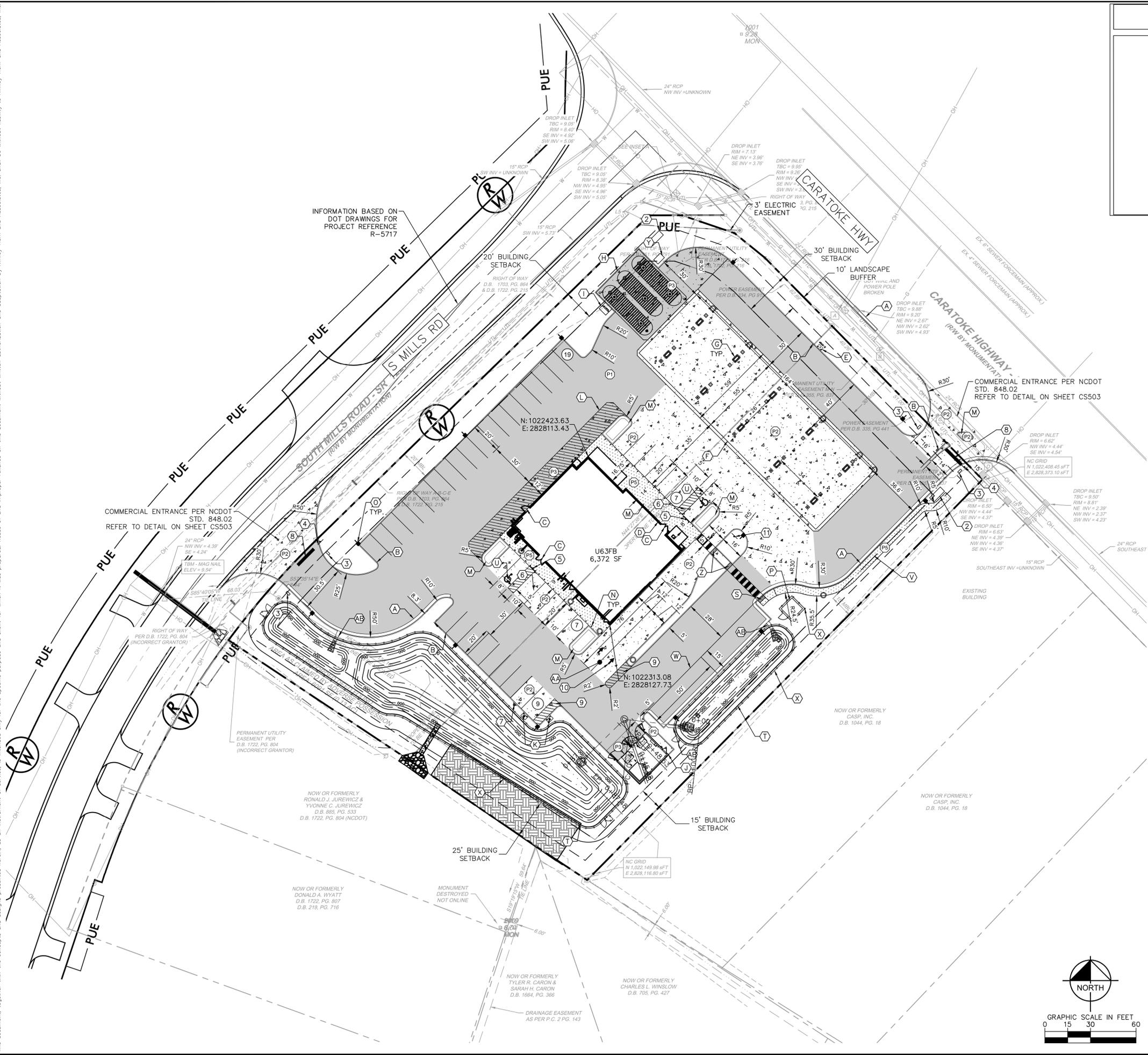


KHA PROJECT
 116947009
 DATE
 05/23/2025
 SCALE AS SHOWN
 DESIGNED BY AZ
 DRAWN BY ALL
 CHECKED BY LWY

DEMO & ES

MOYOCK MILLS ROAD
 PREPARED FOR
FRONTIER
 NORTH CAROLINA
 SHEET NUMBER
CE100

Plotted By: Curasky, Corrie. Sheet: MOYOCK MILLS ROAD - LAYOUT: CS100 - SITE PLAN - May 23, 2025 12:14:13pm. K:\web-civil\WAWA\116947009 - wawa moyock mills road\CAD\plansheets\CS100 - Site Plans.dwg
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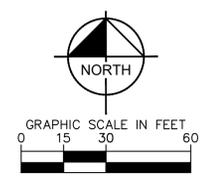
SITE LEGEND

ASPHALT PAVEMENT (SEE SHEET CS502)	(P1)
STANDARD DUTY CONCRETE PAVEMENT (SEE SHEET CS502)	(P2)
HEAVY DUTY CONCRETE PAVEMENT (SEE SHEET CS502)	(P3)
CONCRETE SIDEWALK (SEE SHEET CS502 FOR ONSITE, CS502 FOR OFFSITE)	(P5)
2'-6" CURB & GUTTER	
6" CURB	
PROPERTY LINE	

- ### SITE NOTES
- ALL CURB RADII ARE 3.0' UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - LOADING ZONE STRIPING SHALL BE PAINTED 4" SINGLE YELLOW SOLID LINE AT 2'-0" O.C. 45° TO THE DRIVE AISLE.
 - TWO COATS YELLOW TRAFFIC PAINT (4" MIN. WIDTH) REQUIRED FOR PAVEMENT STRIPING EXCEPT TWO COATS BLUE TRAFFIC PAINT SHALL BE USED FOR ACCESSIBLE PARKING AREA (18" LETTERS, 2" PAINT STROKE).
 - PROPOSED CONCRETE PADS TO HAVE 2 FT X 2 FT CHAMFERED CORNERS.
 - ALL LIGHTING TO BE INSTALLED 5' BEHIND CURB AND CENTERED ON PAVEMENT STRIPING UNLESS OTHERWISE NOTED.
 - TYING TO EXISTING CURB/GUTTER: THE EXISTING PAVEMENT SHALL BE NEATLY SAWCUT AND REMOVED FOR A DISTANCE OF 2'-0" FROM THE FACE OF CURB AND 2'-0" FROM THE EDGE OF CURB AND GUTTER AND THE SUBGRADE, BASE COURSE, AND PAVING REPLACED WITH NEW PRODUCTS.
 - REFER TO SHEETS CS501 - CS503 FOR WAWA STANDARD DETAILS. SEE SHEET CS504 FOR CONSTRUCTION DETAILS.

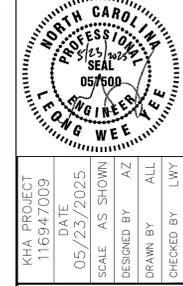
- ### SITE PLAN KEY NOTES
- SEE "GENERAL NOTES" SHEET FOR SITE GENERAL NOTES.
 - SEE "SITE DETAIL" SHEETS FOR DETAILS REFERENCED ON THE SITE PLANS.
- #### SITE IMPROVEMENTS
- (A) 2'-6" CURB AND GUTTER (SEE SITE LEGEND FOR TYPE)
 - (B) 6" CONCRETE CURB
 - (C) BUILDING ENTRANCE (SEE ARCH. PLANS)
 - (D) BUILDING E-STOP (SEE ARCH. PLANS)
 - (E) REMOTE E-STOP WITH TWO (2) BOLLARDS (SEE FUEL PLANS)
 - (F) FUEL CANOPY (SEE ARCH. PLANS)
 - (G) FUEL DISPENSER (SEE FUEL PLANS)
 - (H) UNDERGROUND FUEL STORAGE TANKS (SEE FUEL PLANS)
 - (I) VENT STACK ON 6'X6' CONCRETE PAD WITH BOLLARDS (SEE FUEL PLANS)
 - (J) DUMPSTER ENCLOSURE (SEE ARCH. PLANS)
 - (K) AIR STATIONS WITH 4'X3' CONCRETE PAD & TWO (2) BOLLARDS
 - (L) LOADING ZONE (SEE SITE NOTE 3, THIS SHEET)
 - (M) MOUNTABLE CURB
 - (N) 6"Ø CONCRETE BOLLARDS
 - (O) LIGHT POLES WITH 6" BOLLARD (SEE LIGHTING PLANS)
 - (P) 10'X10' GRINDER PUMP STATION
 - (Q) TRANSFORMER WITH FOUR (4) BOLLARDS - NOT USED
 - (R) CT CABINET (SEE ARCH. PLANS) - NOT USED
 - (S) ADA RAMP
 - (T) TOP OF POND
 - (U) ACCESSIBLE PARKING SPACE
 - (V) 5' PEDESTRIAN SIDEWALK
 - (W) RV PARKING SPACES
 - (X) 4' TALL VINYL FENCE WITH DOUBLE DOOR GATE
 - (Y) 4'X8' ACKNOWLEDGMENT SWITCH PAD
 - (Z) ADA TRUNCATED DOME
 - (AA) "FLY-THRU" LANE (FOR ORDER PICKUP PURPOSE)
 - (AB) 2" CONCRETE FLUME

- ### STRIPING & SIGNAGE KEYNOTES
- SEE "GENERAL NOTES" SHEET FOR SITE GENERAL NOTES.
 - SEE "SITE DETAIL" SHEETS FOR DETAILS REFERENCED ON THE SITE PLANS.
- #### SITE SIGNAGE AND PAVEMENT MARKINGS
- (1) WAWA MONUMENT SIGN (SEE SIGNAGE PLANS) - NOT USED
 - (2) WAWA PYLON SIGN (SEE SIGNAGE PLANS)
 - (3) WAWA DIRECTIONAL SIGN (SEE SIGNAGE PLANS)
 - (4) "STOP" SIGN
 - (5) ADA PARKING SIGN
 - (6) ADA PARKING STRIPING
 - (7) "AIR PUMP PARKING ONLY" SIGN
 - (8) 24" WIDE PAINTED WHITE STOP BAR
 - (9) 4" DIAGONAL STRIPING AT 45° WITH 3" SPACING
 - (10) DIRECTIONAL ARROW
 - (11) DO NOT ENTER SIGN



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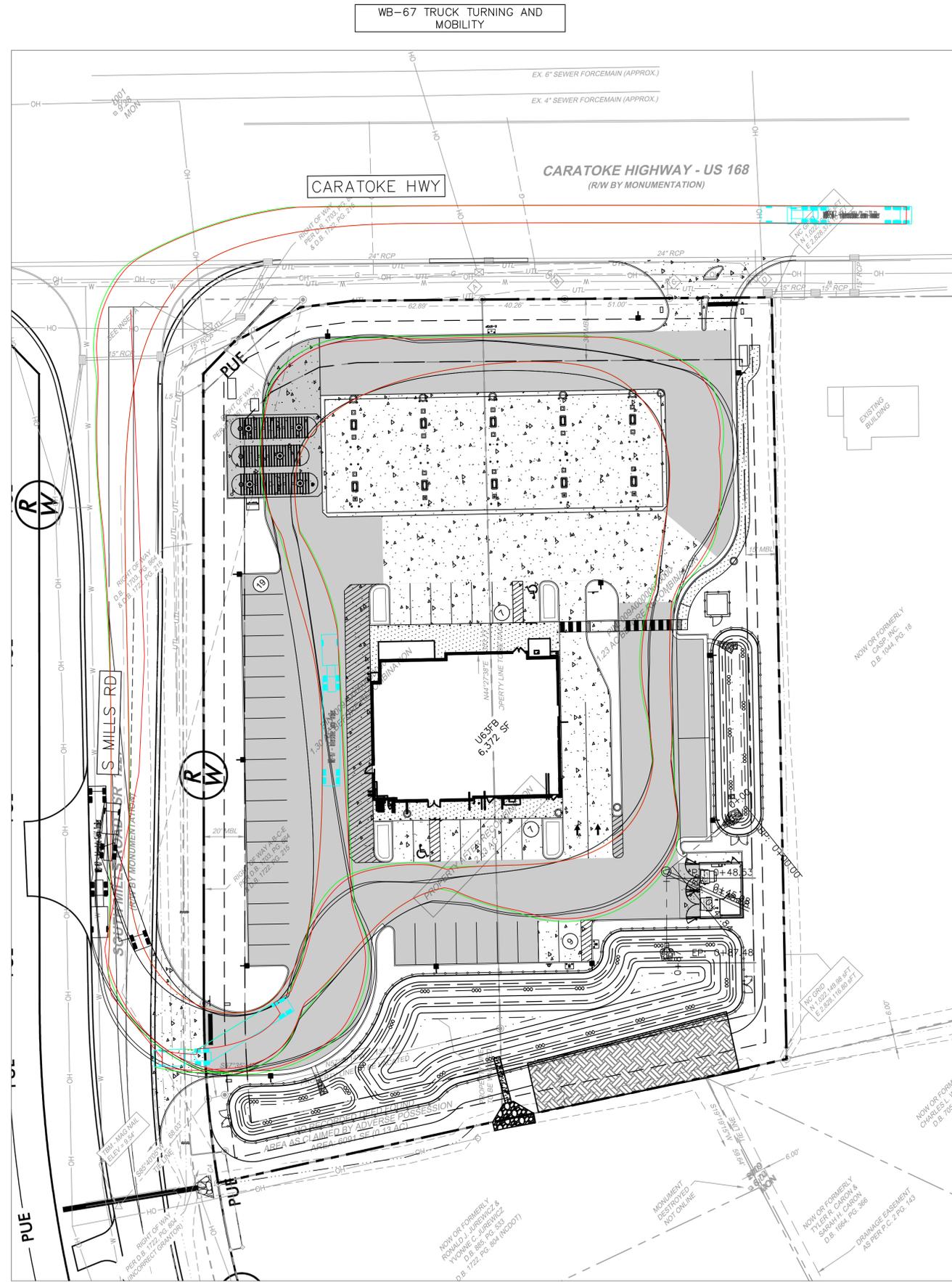
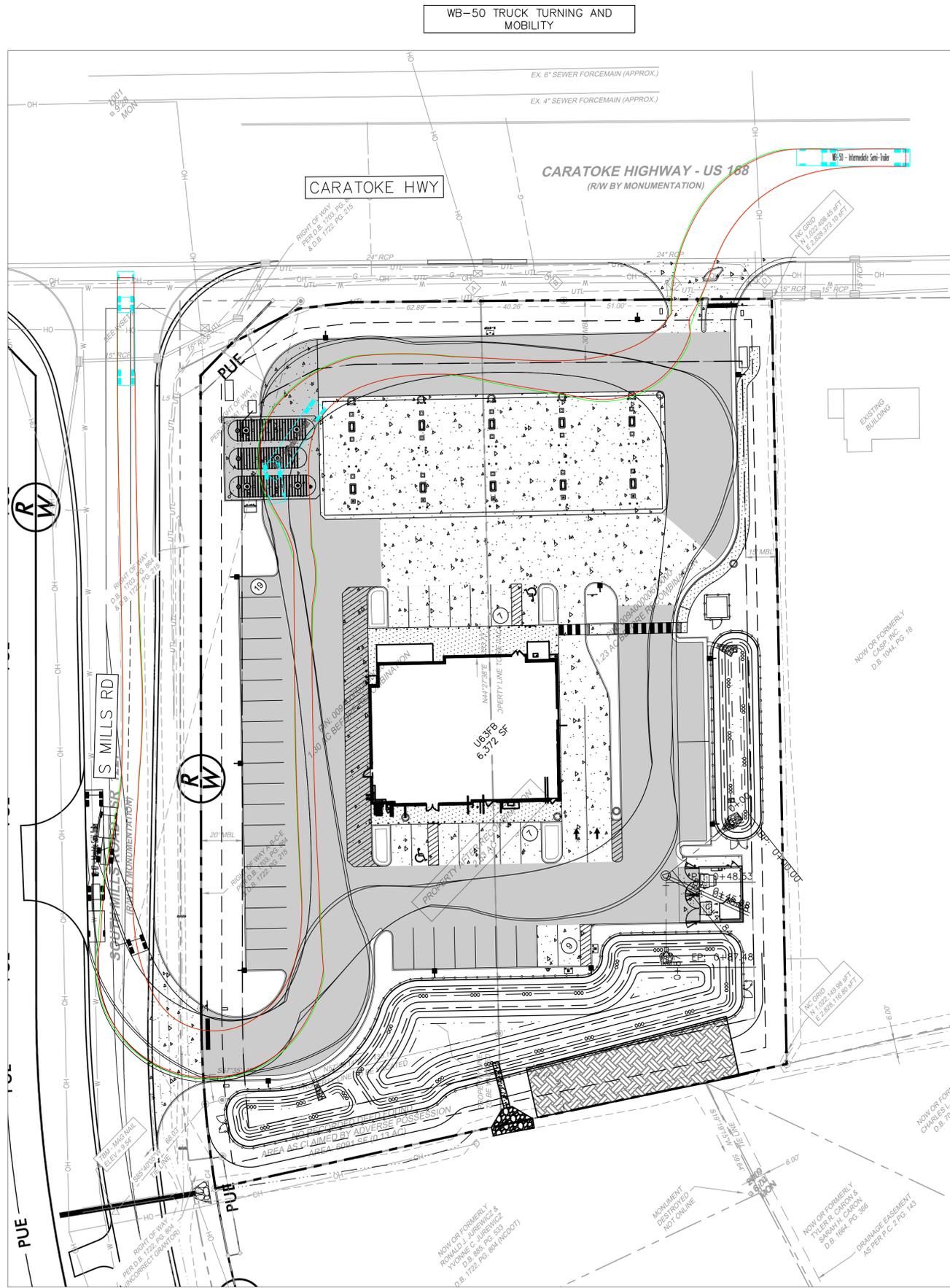


KHA PROJECT	116947009
DATE	05/23/2025
SCALE	AS SHOWN
DESIGNED BY	AZ
DRAWN BY	ALL
CHECKED BY	LWY

MOYOCK MILLS ROAD
 PREPARED FOR
FRONTIER
 NORTH CAROLINA

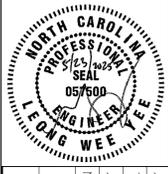
SHEET NUMBER
CS100

Plotted By: Curasky, Carree. Sheet: MOYOCK MILLS ROAD Layout: CS200 TRUCK TURN. May 23, 2025. 12:14:33pm. K:\web_civil\WAMA\116947009 - wava moyock mills road\CADD\plansheets\CS200 SITE PLAN.dwg
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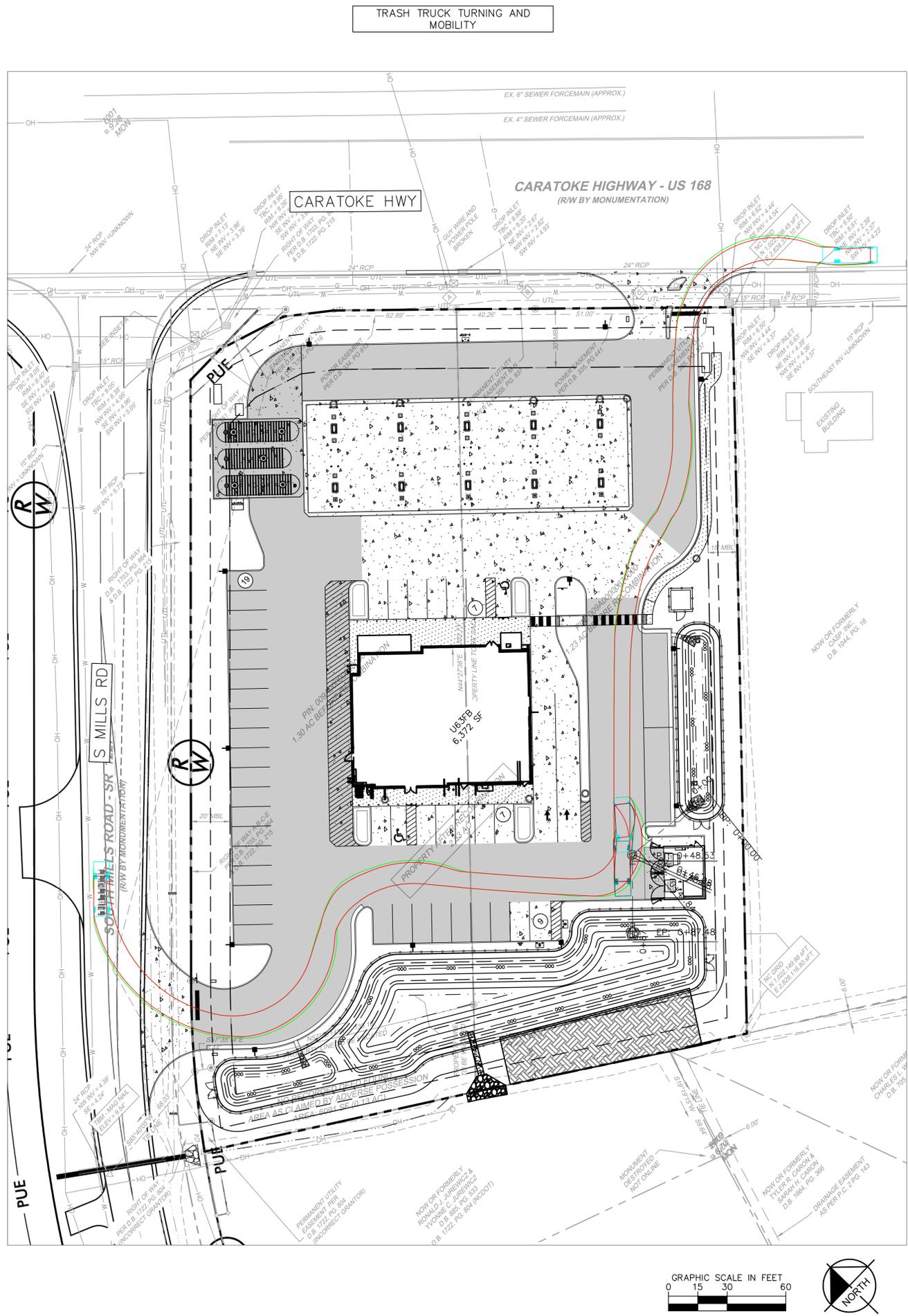
KHA PROJECT	116947009
DATE	05/23/2025
SCALE	AS SHOWN
DESIGNED BY	JY
DRAWN BY	AL
CHECKED BY	JY

TRUCK TURN

MOYOCK MILLS ROAD
 PREPARED FOR
FRONTIER
 NORTH CAROLINA
 MOYOCK

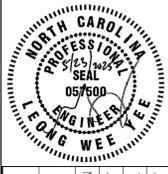
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CS200

Plotted By: Gurasky, Carree. Sheet Set: MOYOCK MILLS ROAD - LAYOUT: CS201 - TRUCK TURN. May 23, 2025. 12:14:38pm. K:\cab-civil\WAWA\116947009 - wawa moyock mills road\CADD\plansheets\CS100 - SITE PLAN.dwg
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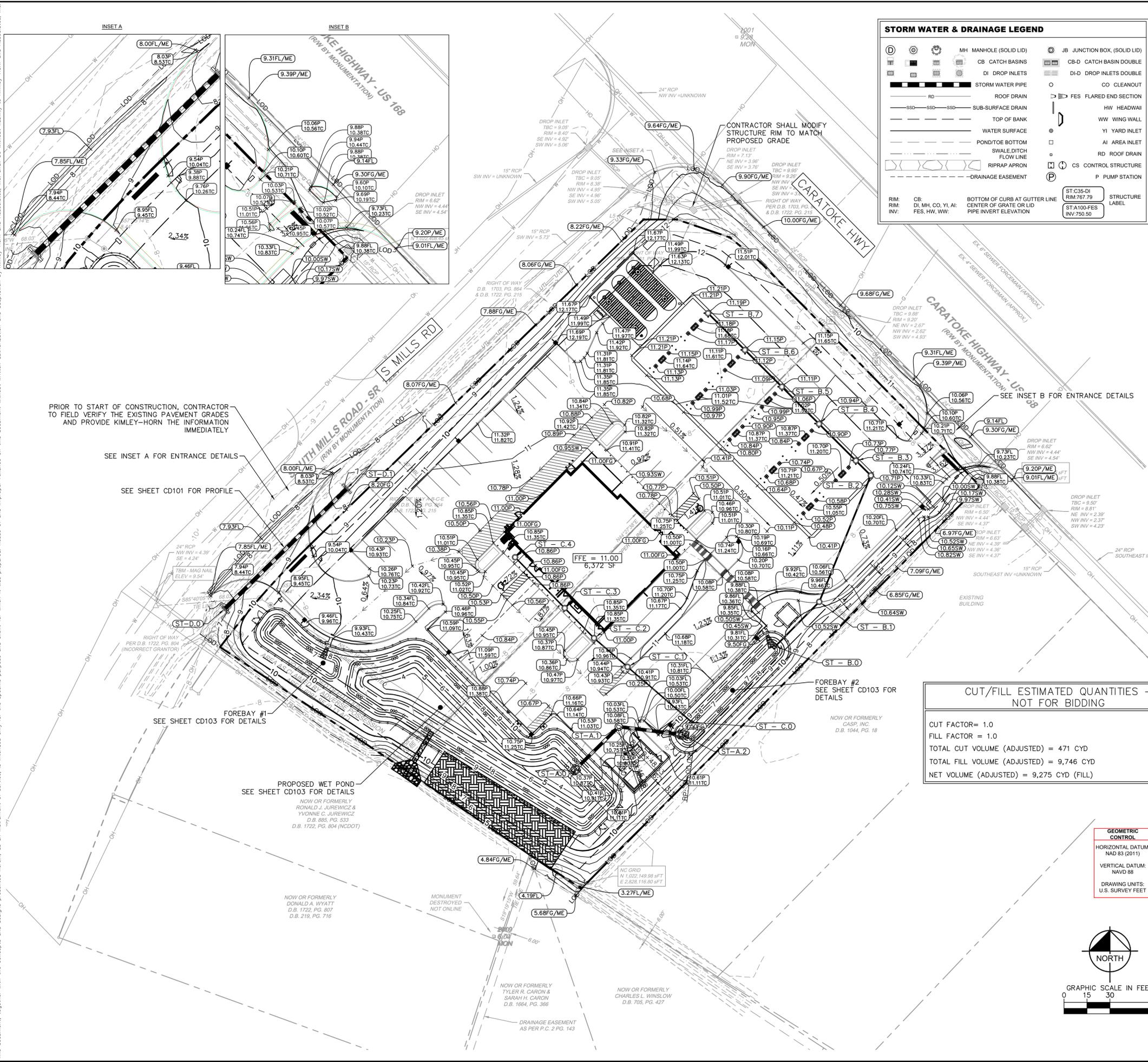
KHA PROJECT	116947009
DATE	05/23/2025
SCALE	AS SHOWN
DESIGNED BY	JY
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TRUCK TURN

MOYOCK MILLS ROAD
 PREPARED FOR
FRONTIER
 NORTH CAROLINA

SHEET NUMBER
CS201

Plotted By: Gurskiy, Carrie; Sheet: MOYOCK MILLS ROAD - LAYOUT: GRADING & DRAINAGE PLAN; Date: May 23, 2025, 12:15:10pm; K:\web-ctail\WAWA\116947009 - wawa moyock mills road CAD\plant\sheet\CG100 GRADING PLAN.dwg; This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



STORM WATER & DRAINAGE LEGEND

(D)	MH MANHOLE (SOLID LID)	(D)	JB JUNCTION BOX (SOLID LID)
(CB)	CB CATCH BASIN	(CB-D)	CB-D CATCH BASIN DOUBLE
(DI)	DI DROP INLETS	(DI-D)	DI-D DROP INLETS DOUBLE
(RD)	ROOF DRAIN	(CO)	CO CLEANOUT
(SSD)	SUB-SURFACE DRAIN	(FES)	FES FLARED END SECTION
(TS)	TOP OF BANK	(HW)	HW HEADWALL
(WS)	WATER SURFACE	(YI)	YI YARD INLET
(PB)	POND/TOE BOTTOM	(AI)	AI AREA INLET
(SD)	SWALE/DITCH FLOW LINE	(RD)	RD ROOF DRAIN
(RAP)	RIPRAP APRON	(CS)	CS CONTROL STRUCTURE
(DE)	DRAINAGE EASEMENT	(P)	P PUMP STATION

RIM: BOTTOM OF CURB AT GUTTER LINE
 DI, MH, CO, YI, AI: CENTER OF GRATE OR LID
 FES, HW, WW: PIPE INVERT ELEVATION

ST-C35-DI RIM: 767.79
 ST-A100-FES INV: 750.50

- ### GRADING AND DRAINAGE NOTES
- ADA ACCESSIBLE SPACES SHALL HAVE A MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS.
 - ALL PROPOSED SIDEWALKS AROUND THE BUILDING AND ALONG THE PROPERTY FRONTAGES SHALL HAVE A MAXIMUM 2.0% CROSS SLOPE AND 5.0% LONG SLOPE.
 - PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
 - CONTRACTOR TO VERIFY DEPTH OF EXISTING UNDERGROUND UTILITIES AND NOTIFY KIMLEY-HORN IF ANY CONFLICTS EXIST.
 - REFER TO DIVISION OF WORK EXHIBIT FOR LIMITS BETWEEN WAWA AND LANDLORD.
 - ALL CLEANOUTS ARE TO BE TRAFFIC RATED.
 - COUNTER SLOPE AT GUTTER PAN ALONG RAMPS NOT TO EXCEED 5%.
 - ALL DOORS ARE REQUIRED TO HAVE ADA COMPLIANT ACCESS.
 - LIMITS OF WORK BETWEEN WAWA AND OWNER PER DIVISION OF WORK.
 - APPROXIMATELY 2200 CYD OF FILL PROPOSED. QUANTITY IS ESTIMATED AND NOT TO BE USED FOR BIDDING.
 - ALL PROPOSED CURB CUTS SHALL COMPLY WITH ANSI 406.1.

GRADING AND DRAINAGE LEGEND

(---)	PROPOSED CONTOUR
(---)	EXISTING CONTOUR
(--->---)	FLOW LINE
(---HP---	HIGH POINT
(P)	PAVEMENT ELEVATION
(FL)	FLOWLINE ELEVATION
(TC)	TOP OF CURB ELEVATION
(FFE)	FINISHED FLOOR ELEVATION
(SW)	SIDEWALK ELEVATION
(FG)	FINISHED GROUND ELEVATION
(TI)	TOP OF ISLAND ELEVATION
(RIM)	RIM ELEVATION
(INV)	INVERT ELEVATION
(TW)	ADA ACCESSIBLE AREAS (FOR REFERENCE ONLY)
(TW)	TOP OF WALL ELEVATION

PROPOSED TOPOGRAPHIC LEGEND

(---450---	PROPOSED MAJOR CONTOUR
(---451---	PROPOSED MINOR CONTOUR
(---LOD---	EXISTING MAJOR CONTOUR
(---LOD---	EXISTING MINOR CONTOUR
(---LOD---	LIMITS OF DISTURBANCE
(---RIDGE---	RIDGE LINE
(---FLOW---	FLOW LINE
(---2.00%---	PROP. SLOPE GRADE
(---4:1---	PROP. RUN RISE
(---TP 107---	TP: TOP OF PAVEMENT
(---FC---	TC: TOP OF CURB; FC: BOTTOM OF CURB
(---ME---	ME: MATCH EXISTING
(---HP---	HP: HIGH POINT
(---FL---	FL: FLOW LINE
(---FFE---	FFE: FINISHED FLOOR ELEV.

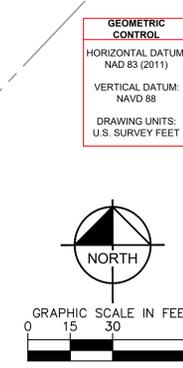
CUT/FILL ESTIMATED QUANTITIES - NOT FOR BIDDING

CUT FACTOR = 1.0
 FILL FACTOR = 1.0
 TOTAL CUT VOLUME (ADJUSTED) = 471 CYD
 TOTAL FILL VOLUME (ADJUSTED) = 9,746 CYD
 NET VOLUME (ADJUSTED) = 9,275 CYD (FILL)

STORM DRAINAGE ABBREVIATIONS LIST (SEE LATEST NCDOT STDS. MANUAL AND DETAIL SHEETS)

CB	CATCH BASIN (NCDOT STDS. 840.00, 01, 02, 46, 66)
US	US FOUNDRY 5181 FRAME & HOOD AND US FOUNDRY 6003 GRATE
DI	DROP INLET (NCDOT STDS. 840.00, 14, 15, 46, 66)
US	US FOUNDRY 4139 FRAME AND US FOUNDRY 6002 GRATE
MH	JUNCTION BOX/MANHOLE (NCDOT STDS. 840.00, 31, 32, 46, 54, 66)
OE	OPEN ENDED PIPE
RD	ROOF DRAIN (REF: ARCH/MEP)
CO	CLEAN-OUT (SEE DETAIL SHEET)
FS	FLOW SPLITTER (SEE DETAIL SHEET)
OCS	BMP CONTROL STRUCTURE (SEE DETAIL SHEET)
EX-CB	EXISTING CATCH BASIN

- ### GRADING AND DRAINAGE PLAN KEY NOTES
- ADA SPACES (PAVEMENT SLOPES WITHIN THE LIMITS OF THIS AREA HAVE BEEN DESIGNED AT 1.8% MAXIMUM GRADE. CONTRACTOR SHALL GRADE THESE AREAS NO STEEPER THAN 2.0%).
 - STANDARD SPILL CURB TO PROVIDE NATURAL FLOW AWAY FROM CURB.
 - ALL PAVEMENT SPOT GRADES ELEVATIONS ALONG CURB AND GUTTER REFER TO FACE OF CURB AT GUTTER FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
 - ALL SPOT GRADES DEPICT FINISH GRADE UNLESS OTHERWISE NOTED.
 - NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
 - 6" (TP) ROOF DRAIN LATERAL (RD) CONNECTION TO ROOF DRAIN DOWNSPOUTS OR STAND PIPES, LATERALS SHALL BE CONSTRUCTED AT 1% MINIMUM SLOPE TO MAIN OR COLLECTOR PIPE. COORDINATE LOCATION AND INVERT WITH ARCH/MEP PLANS.
 - CLEANOUT(S) - ("H-20" TRAFFIC RATED IN ALL PAVED AREAS), SPACING PER GOVERNING AGENCY.
 - A MINIMUM VERTICAL SEPARATION OF 18-INCHES SHALL BE MAINTAINED AT CROSSINGS. IN THE EVENT THAT MINIMUM SEPARATION REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL UTILIZE MINIMUM PIPE SEPARATION REQUIREMENTS PER THE GOVERNING AGENCY.



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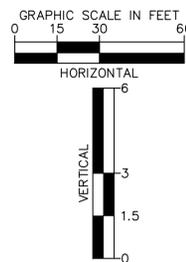
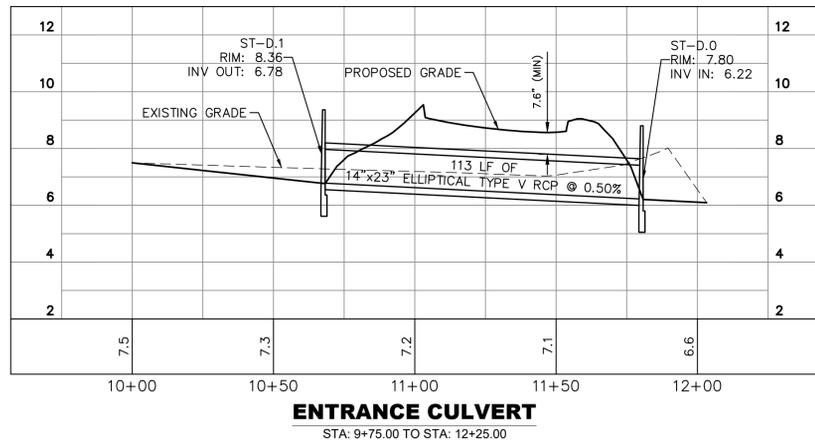
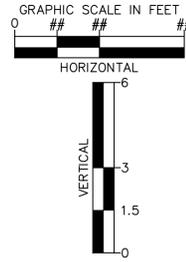
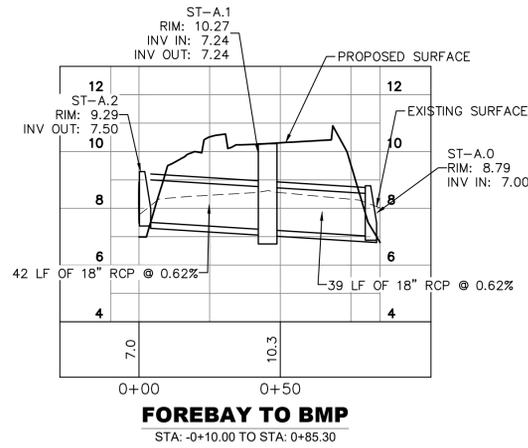
MOYOCK MILLS ROAD - LAYOUT: GRADING & DRAINAGE PLAN

PREPARED FOR FRONTIER

MOYOCK NORTH CAROLINA

KHA PROJECT: 116947009	DATE: 05/23/2025
SCALE: AS SHOWN	DESIGNED BY: AZ
DRAWN BY: ALL	CHECKED BY: LWY
SHEET NUMBER CG100	

Plotted By: Gurskiy, Corree. Sheet Set: MOYOCK MILLS ROAD - Layout: GRADING PLAN DETAILS. May 23, 2025. 12:15:12pm. K:\web-civil\WAWA\116947009 - wawa.moyock.mills.road\cadd\plansheets\CG100 GRADING PLAN.dwg
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STRUCTURE TABLE			
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:
ST-A.0	18" FES RIM: 8.79 INV IN: 7.00	FROM ST-A.1, 18" RCP INV IN: 7.00 @ 0.62%	
ST-A.1	NCDOT STD MH RIM: 10.27 INV IN: 7.24 INV OUT: 7.24	FROM ST-A.2, 18" RCP INV IN: 7.24 @ 0.62%	TO ST-A.0, 18" RCP INV OUT: 7.24 @ 0.62%
ST-A.2	18" FES RIM: 9.29 INV OUT: 7.50		TO ST-A.1, 18" RCP INV OUT: 7.50 @ 0.62%
ST-D.0	NCDOT 310.02 RIM: 7.80 INV IN: 6.22	FROM ST-D.1, 14"x23" ELLIPTICAL RCP INV IN: 6.22 @ 0.50%	
ST-D.1	NCDOT 310.02 RIM: 8.36 INV OUT: 6.78		TO ST-D.0, 14"x23" ELLIPTICAL RCP INV OUT: 6.78 @ 0.50%
ST - B.0	PIPE END RIM: 8.69 INV IN: 7.50	FROM ST - B.1, 8" PVC INV IN: 7.50 @ 0.30%	
ST - B.1	6" STORM CO RIM: 10.56 INV IN: 7.62 INV OUT: 7.62	FROM ST - B.2, 8" PVC INV IN: 7.62 @ 0.30%	TO ST - B.0, 8" PVC INV OUT: 7.62 @ 0.30%
ST - B.2	6" STORM CO RIM: 10.69 INV IN: 7.89 INV OUT: 7.89	FROM ST - B.3, 8" PVC INV IN: 7.89 @ 0.30%	TO ST - B.1, 8" PVC INV OUT: 7.89 @ 0.30%
ST - B.3	8" STORM CO RIM: 10.76 INV IN: 7.93 INV OUT: 7.93	FROM ST - B.4, 8" PVC INV IN: 7.93 @ 0.30%	TO ST - B.2, 8" PVC INV OUT: 7.93 @ 0.30%
ST - B.4	8" STORM CO RIM: 10.93 INV IN: 8.03 INV OUT: 8.03	FROM ST - B.5, 8" PVC INV IN: 8.03 @ 0.30%	TO ST - B.3, 8" PVC INV OUT: 8.03 @ 0.30%
ST - B.5	8" STORM CO RIM: 11.10 INV IN: 8.14 INV OUT: 8.14	FROM ST - B.6, 8" PVC INV IN: 8.14 @ 0.30%	TO ST - B.4, 8" PVC INV OUT: 8.14 @ 0.30%
ST - B.6	8" STORM CO RIM: 11.14 INV IN: 8.24 INV OUT: 8.24	FROM ST - B.7, 8" PVC INV IN: 8.24 @ 0.30%	TO ST - B.5, 8" PVC INV OUT: 8.24 @ 0.30%
ST - B.7	8" STORM CO RIM: 11.19 INV OUT: 8.34		TO ST - B.6, 8" PVC INV OUT: 8.34 @ 0.30%
ST - C.0	PIPE END RIM: 8.52 INV IN: 7.50	FROM ST - C.1, 6" PVC INV IN: 7.50 @ 0.30%	
ST - C.1	6" STORM CO RIM: 10.94 INV IN: 7.67 INV OUT: 7.67	FROM ST - C.2, 6" PVC INV IN: 7.67 @ 0.30%	TO ST - C.0, 6" PVC INV OUT: 7.67 @ 0.30%
ST - C.2	6" STORM CO RIM: 10.88 INV IN: 7.75 INV OUT: 7.75	FROM ST - C.3, 6" PVC INV IN: 7.75 @ 0.30%	TO ST - C.1, 6" PVC INV OUT: 7.75 @ 0.30%
ST - C.3	6" STORM CO RIM: 10.90 INV IN: 7.84 INV OUT: 7.84	FROM ST - C.4, 6" PVC INV IN: 7.84 @ 0.30%	TO ST - C.2, 6" PVC INV OUT: 7.84 @ 0.30%
ST - C.4	6" STORM CO RIM: 10.91 INV OUT: 7.97		TO ST - C.3, 6" PVC INV OUT: 7.97 @ 0.30%

STORM DRAIN PIPE TABLE					
START STRUCTURE	END STRUCTURE	SIZE	LENGTH	SLOPE	MATERIAL
ST-A.1	ST-A.0	18"	39'	0.62%	RCP TYPE IV
ST-A.2	ST-A.1	18"	42'	0.62%	RCP TYPE IV
ST-D.1	ST-D.0	14"x23"	113'	0.50%	ELLIPTICAL RCP TYPE V
ST - B.1	ST - B.0	8"	41'	0.30%	PVC
ST - B.2	ST - B.1	8"	89'	0.30%	PVC
ST - B.3	ST - B.2	8"	14'	0.30%	PVC
ST - B.4	ST - B.3	8"	34'	0.30%	PVC
ST - B.5	ST - B.4	8"	34'	0.30%	PVC
ST - B.6	ST - B.5	8"	34'	0.30%	PVC
ST - B.7	ST - B.6	8"	34'	0.30%	PVC
ST - C.1	ST - C.0	6"	56'	0.30%	PVC
ST - C.2	ST - C.1	6"	29'	0.30%	PVC
ST - C.3	ST - C.2	6"	27'	0.30%	PVC
ST - C.4	ST - C.3	6"	46'	0.30%	PVC

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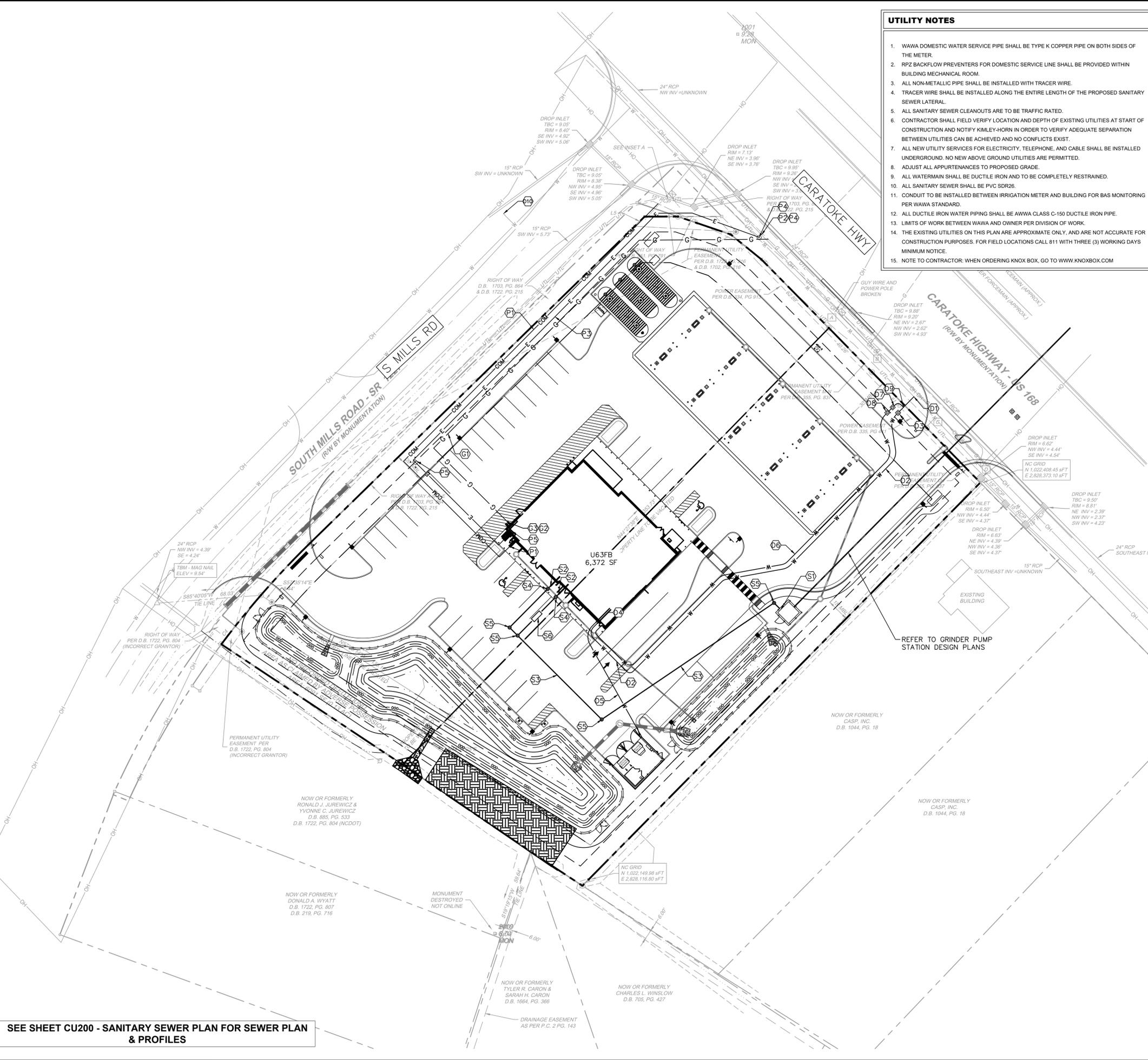
KHA PROJECT	116947009
DATE	05/23/2025
SCALE	AS SHOWN
DESIGNED BY	AZ
DRAWN BY	ALL
CHECKED BY	LWY

DRAINAGE PROFILES AND DETAILS

MOYOCK MILLS ROAD
 PREPARED FOR
FRONTIER
 NORTH CAROLINA

SHEET NUMBER
CG101

Plotted By: Gurskiy, Carree. Sheet Set: MOYOCK MILLS ROAD - Layout: UTILITY PLAN. May 23, 2025 12:12:12 PM. K:\VBA-CAD\WAWA\116947009 - wawa moyock mills road\CADD\plansheets\CU100 - Utility Plan.dwg
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- ### UTILITY NOTES
1. WAWA DOMESTIC WATER SERVICE PIPE SHALL BE TYPE K COPPER PIPE ON BOTH SIDES OF THE METER.
 2. RPZ BACKFLOW PREVENTERS FOR DOMESTIC SERVICE LINE SHALL BE PROVIDED WITHIN BUILDING MECHANICAL ROOM.
 3. ALL NON-METALLIC PIPE SHALL BE INSTALLED WITH TRACER WIRE.
 4. TRACER WIRE SHALL BE INSTALLED ALONG THE ENTIRE LENGTH OF THE PROPOSED SANITARY SEWER LATERAL.
 5. ALL SANITARY SEWER CLEANOUTS ARE TO BE TRAFFIC RATED.
 6. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES AT START OF CONSTRUCTION AND NOTIFY KIMLEY-HORN IN ORDER TO VERIFY ADEQUATE SEPARATION BETWEEN UTILITIES CAN BE ACHIEVED AND NO CONFLICTS EXIST.
 7. ALL NEW UTILITY SERVICES FOR ELECTRICITY, TELEPHONE, AND CABLE SHALL BE INSTALLED UNDERGROUND. NO NEW ABOVE GROUND UTILITIES ARE PERMITTED.
 8. ADJUST ALL APPURTENANCES TO PROPOSED GRADE.
 9. ALL WATERMAIN SHALL BE DUCTILE IRON AND TO BE COMPLETELY RESTRAINED.
 10. ALL SANITARY SEWER SHALL BE PVC SDR26.
 11. CONDUIT TO BE INSTALLED BETWEEN IRRIGATION METER AND BUILDING FOR BAS MONITORING PER WAWA STANDARD.
 12. ALL DUCTILE IRON WATER PIPING SHALL BE AWWA CLASS C-150 DUCTILE IRON PIPE.
 13. LIMITS OF WORK BETWEEN WAWA AND OWNER PER DIVISION OF WORK.
 14. THE EXISTING UTILITIES ON THIS PLAN ARE APPROXIMATE ONLY, AND ARE NOT ACCURATE FOR CONSTRUCTION PURPOSES. FOR FIELD LOCATIONS CALL 811 WITH THREE (3) WORKING DAYS MINIMUM NOTICE.
 15. NOTE TO CONTRACTOR: WHEN ORDERING KNOX BOX, GO TO WWW.KNOXBOX.COM

- ### UTILITY PLAN NOTES
1. SEE "GENERAL NOTES" SHEET FOR SITE GENERAL NOTES AND ZONING NOTES.
 7. REFER TO GENERAL NOTES SHEET FOR GENERAL, WATER UTILITY, AND SANITARY SEWER, NOTES, MATERIALS, AND REQUIREMENTS.
 8. SEE EXISTING CONDITIONS FOR COMPLETE BOUNDARY DESCRIPTION, ADJOINING PROPERTIES, ZONING AND USE, AND EXISTING UTILITY LOCATIONS AND SIZES.
 4. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES ROUNDED TO THE NEAREST FOOT.
 5. ADJUSTMENTS OF EXISTING MANHOLE CASTINGS TO GRADE TO A MAXIMUM OF 12 INCHES SHALL BE MADE USING PRECAST CONCRETE ADJUSTING RINGS PROVIDED THE TOTAL HEIGHT OF EXISTING AND NEW ADJUSTING RINGS DOES NOT EXCEED 12 INCHES.
 6. ADJUSTMENTS OF CASTINGS WHERE THE TOTAL HEIGHT OF ADJUSTING RINGS WOULD EXCEED 12 INCHES SHALL BE MADE BY REPLACING THE CONE AND/OR BARREL SECTION OF THE STRUCTURE.

- ### ALERT TO CONTRACTOR:
- PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM CEC AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CEC AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
 - CONTRACTOR SHALL TAKE EXTREME CARE WHEN WORKING AROUND EXISTING UTILITIES. CONTRACTOR SHALL REPAIR ANY DAMAGED FEATURES/UTILITIES TO THAT OF EXISTING OR BETTER CONDITION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL REPAIRS TO ANY DAMAGED ROADWAYS, SIDEWALKS, CURB AND GUTTER, ASPHALT, ETC.

CONTRACTOR SHALL REFER TO ARCH / MEP PLANS FOR EXACT UTILITY ENTRANCE LOCATIONS.

FIRE, AND DOMESTIC BACKFLOW DEVICES LOCATED INSIDE BUILDING (REFERENCE ARCH/MEP PLANS)

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

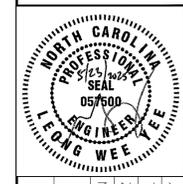
TAMPER SWITCH CONDUIT REQUIRED ON GATE VALVES, AND BACKFLOW PREVENTER ASSEMBLIES LOCATED ABOVE-GROUND. VALVES INSTALLED BELOW GROUND DO NOT REQUIRE TAMPER SWITCHES UNLESS NOTED OTHERWISE BY LOCAL AUTHORITY HAVING JURISDICTION.

- ### UTILITY KEYNOTE LEGEND
- #### SANITARY SEWER KEYNOTES
- (S1) CONTRACTOR TO COORDINATE SANITARY SEWER CONNECTION WITH THE MUNICIPALITY PUBLIC UTILITIES.
 - (S2) 4" PVC SANITARY SERVICE. INV OUT FROM BUILDING AT MINIMUM 3.25' BELOW FFE.
 - (S3) PRIVATE 4" SANITARY SEWER LATERAL AT MINIMUM 1.0% SLOPE. COORDINATE WITH ARCH / MEP PLANS.
 - (S4) 4" 2 WAY-SANITARY SEWER CLEANOUT(S) - ("H-20" TRAFFIC RATED IN ALL PAVED AREAS), SPACING PER GOVERNING AGENCY.
 - (S5) 4" SANITARY SEWER CLEANOUT(S) - ("H-20" TRAFFIC RATED IN ALL PAVED AREAS), SPACING PER GOVERNING AGENCY.
 - (S6) GREASE INTERCEPTOR. REFER TO DETAIL SHEET.
 - (S7) SANITARY SEWER MANOLE
- #### POWER - COMMUNICATION (TELEPHONE, FIBER OPTIC, DATA, TV) KEYNOTES
- (P1) COMMUNICATION (PHONE, DATA, TV) SERVICE - (3) 4" CONDUITS
 - (P2) CONTRACTOR TO COORDINATE ELECTRIC CONNECTION WITH ELECTRICAL PROVIDER.
 - (P3) ELECTRICAL SERVICE - (6) 4" CONDUITS - TO TRANSFORMER.
 - (P4) POLE/PAD MOUNTED ELECTRIC TRANSFORMER LOCATION SIZE AND CONNECTIONS PER POWER COMPANY STANDARDS.
 - (P5) REMOTE CT CABINET WITH BOLLARDS. SIZE AND CONNECTIONS PER POWER COMPANY STANDARDS.
- #### GAS SERVICE KEYNOTES
- (G1) GAS MAIN BY UTILITY COMPANY. CONTRACTOR TO COORDINATE UTILITY CONNECTION WITH GAS PROVIDER.
 - (G2) GAS METER LOCATION PER UTILITY COMPANY'S REQUIREMENTS.
 - (G3) GAS SERVICE TO BUILDING PER UTILITY COMPANY'S REQUIREMENTS.
- #### WATER LINE DISTRIBUTION KEYNOTES
- (D1) DOMESTIC CONNECTION TO EXISTING WATER MAIN WITH 2" TAPPING SADDLE.
 - (D2) 2" BLACK POLY PIPE DOMESTIC WATER SERVICE. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE SUCH AS BACKFLOW PREVENTION DEVICES: GATE VALVES, BENDS AND FITTINGS, ETC., WHICH MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH THE AHJ.
 - (D3) 2" DOMESTIC WATER METER.
 - (D4) 2" DOMESTIC SERVICE ENTRY LOCATION INTO BUILDING. FIRE AND DOMESTIC BACKFLOW DEVICES LOCATED INSIDE BUILDING. REFER ARCH/MEP PLANS.
 - (D5) 3/4" PVC LINE TO FROST FREE YARD HYDRANT.
 - (D6) 1" BLACK POLY PIPE IRRIGATION WATER SERVICE.
 - (D7) 3/4" IRRIGATION WATER METER.
 - (D8) 3/4" IRRIGATION BACKFLOW PREVENTER
 - (D9) 1" CORP STOP
 - (D10) EXISTING FIRE HYDRANT

SEE SHEET CU200 - SANITARY SEWER PLAN FOR SEWER PLAN & PROFILES

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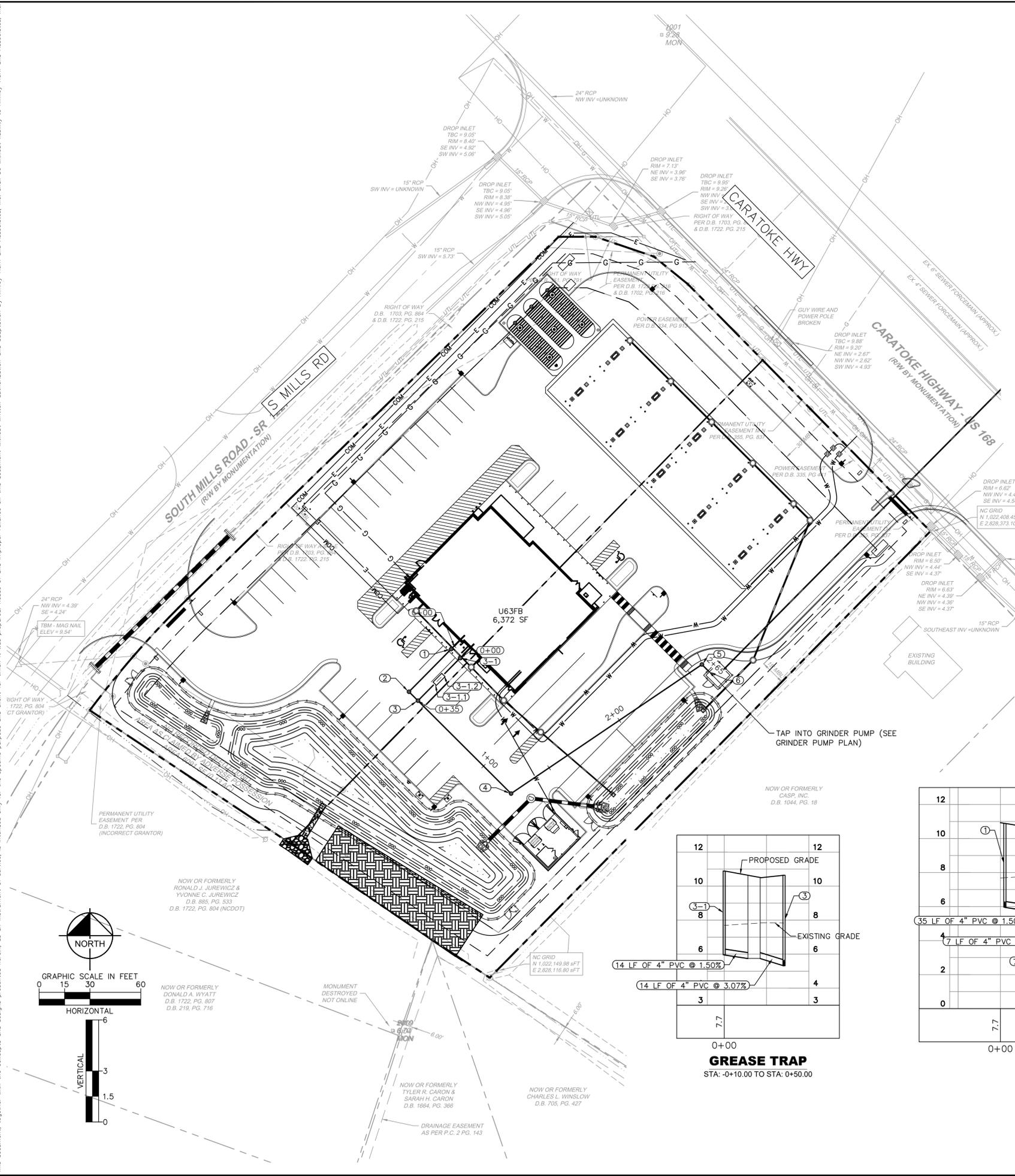


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SCALE	AS SHOWN
DESIGNED BY	AZ
DRAWN BY	ALL
CHECKED BY	LWY

UTILITY PLAN

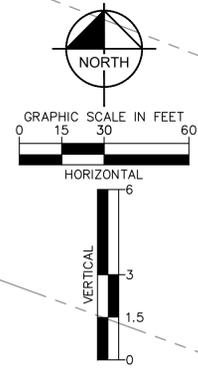
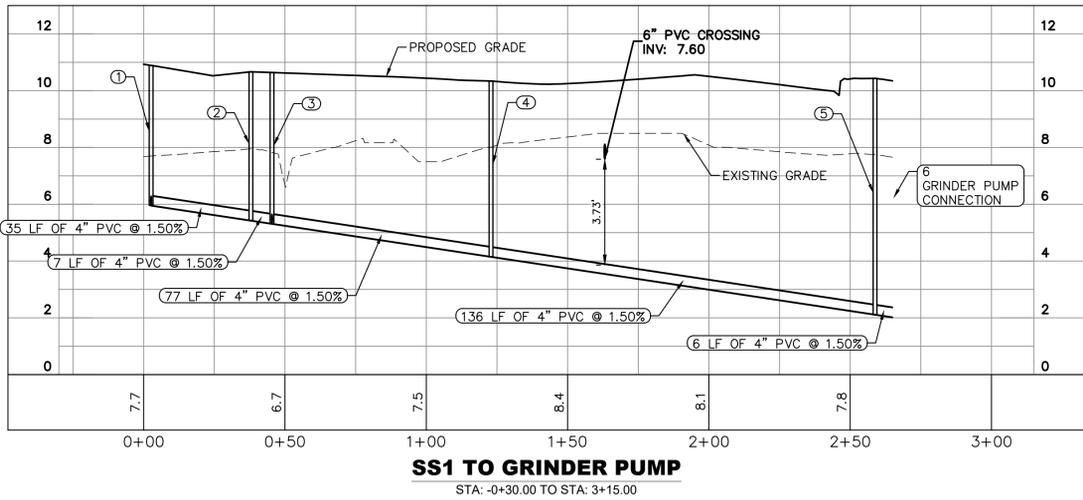
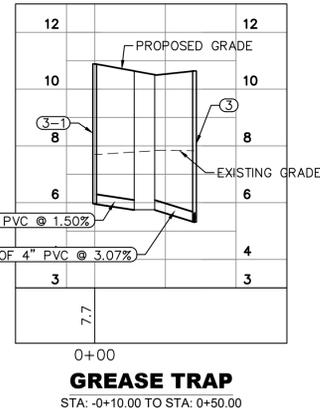
MOYOCK MILLS ROAD
 PREPARED FOR
FRONTIER
 NORTH CAROLINA
 SHEET NUMBER
CU100

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STRUCTURE TABLE			
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:
1	4" SSCO RIM: 10.89 INV IN: 5.96 INV OUT: 5.96	FROM 4" PVC INV IN: 5.96 @ 1.50%	TO 2, 4" PVC INV OUT: 5.96 @ 1.50%
2	4" SSCO RIM: 10.67 INV IN: 5.43 INV OUT: 5.43	FROM 1, 4" PVC INV IN: 5.43 @ 1.50%	TO 3, 4" PVC INV OUT: 5.43 @ 1.50%
3-1.1	PIPE END RIM: 10.51 INV OUT: 5.75		TO 3, 4" PVC INV OUT: 5.75 @ 3.07%
3-1.2	PIPE END RIM: 10.64 INV IN: 5.75	FROM 3-1, 4" PVC INV IN: 5.75 @ 1.50%	
3	4" SSCO RIM: 10.64 INV IN: 5.32 INV OUT: 5.32	FROM 2, 4" PVC INV IN: 5.32 @ 1.50% FROM 3-1.1, 4" PVC INV IN: 5.32 @ 3.07%	TO 4, 4" PVC INV OUT: 5.32 @ 1.50%
3-1	4" SSCO RIM: 10.89 INV IN: 5.96 INV OUT: 5.96	FROM 4" PVC INV IN: 5.96 @ 1.50%	TO 3-1.2, 4" PVC INV OUT: 5.96 @ 1.50%
4	4" SSCO RIM: 10.34 INV IN: 4.16 INV OUT: 4.16	FROM 3, 4" PVC INV IN: 4.16 @ 1.50%	TO 5, 4" PVC INV OUT: 4.16 @ 1.50%
5	4" SSCO RIM: 10.44 INV IN: 2.12 INV OUT: 2.12	FROM 4, 4" PVC INV IN: 2.12 @ 1.50%	TO 6, 4" PVC INV OUT: 2.12 @ 1.50%
6	PIPE END RIM: 10.35 INV IN: 2.03	FROM 5, 4" PVC INV IN: 2.03 @ 1.50%	

SANITARY SEWER PIPE TABLE					
START STRUCTURE	END STRUCTURE	SIZE	LENGTH	SLOPE	MATERIAL
	1	4"	3'	1.50%	PVC
1	2	4"	35'	1.50%	PVC
3-1.1	3	4"	14'	3.07%	PVC
3-1	3-1.2	4"	14'	1.50%	PVC
	3-1	4"	3'	1.50%	PVC
2	3	4"	7'	1.50%	PVC
3	4	4"	77'	1.50%	PVC
4	5	4"	136'	1.50%	PVC
5	6	4"	6'	1.50%	PVC



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DATE: _____

REVISIONS:

No.	DATE	BY

KHA PROJECT: 116947009

DATE: 05/23/2025

SCALE: AS SHOWN

DESIGNED BY: JY

DRAWN BY: AL

CHECKED BY: JY

SANITARY SEWER PLAN

MOYOCK MILLS ROAD

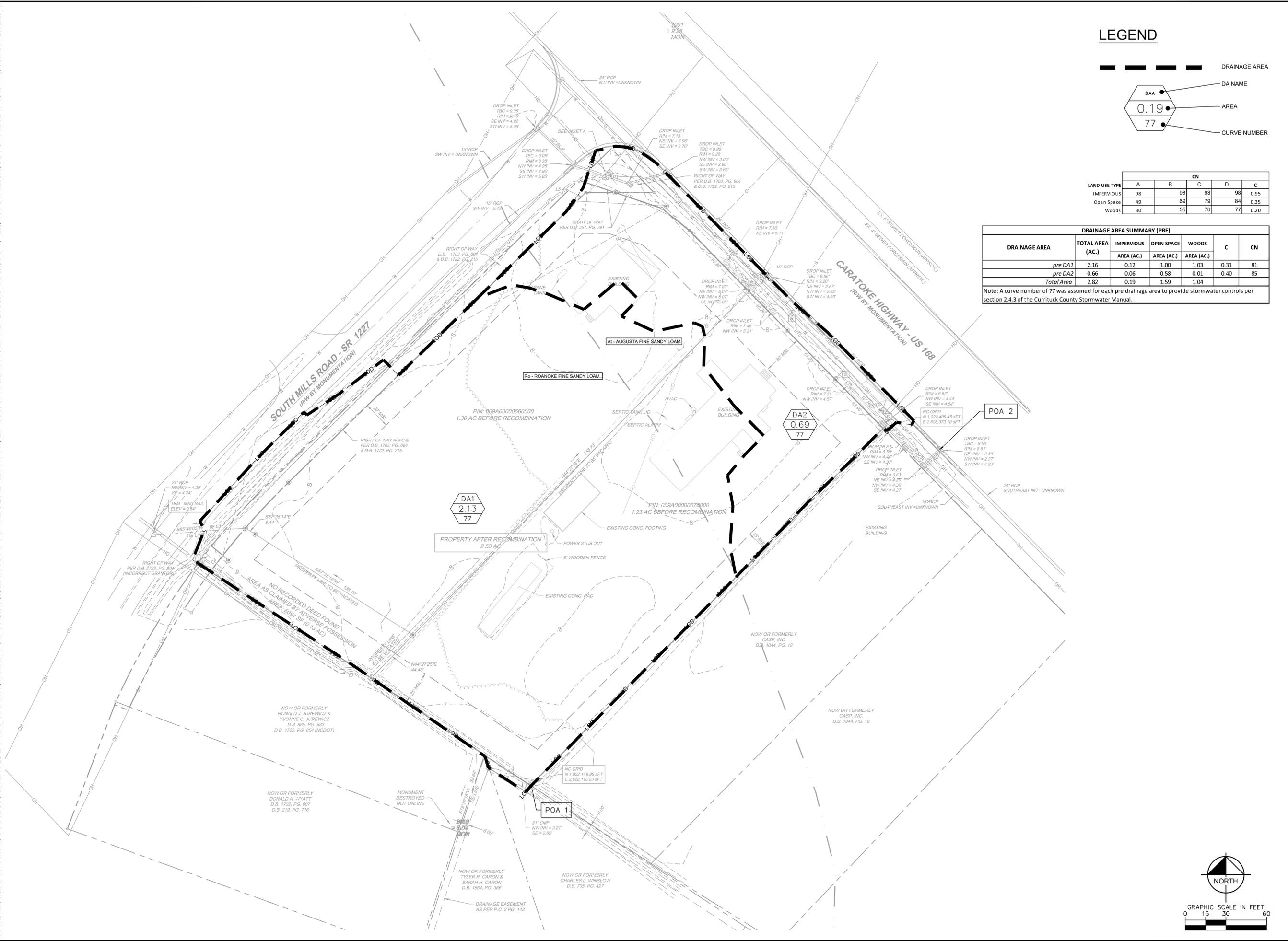
PREPARED FOR: **FRONTIER**

NORTH CAROLINA

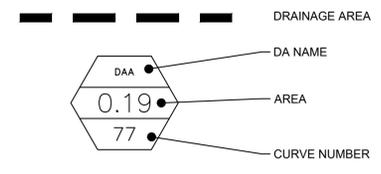
MOYOCK

SHEET NUMBER: **CU200**

Plotted By: Gurskiy, Carree. Sheet Set: MOYOCK MILLS ROAD - LAYOUT EXISTING DRAINAGE AREA MAP - May 23, 2025. 12:15:49pm. K:\cab_civil\WAWA\116947009 - wawa moyock mills road\CADD\plansheets\CD101 PRE DRAINAGE AREA MAP.dwg
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LEGEND



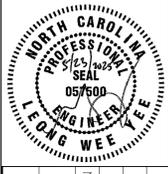
LAND USE TYPE	CN				
	A	B	C	D	C
IMPERVIOUS	98	98	98	98	0.95
Open Space	49	69	79	84	0.35
Woods	30	55	70	77	0.20

DRAINAGE AREA	TOTAL AREA (AC.)	IMPERVIOUS			C	CN
		AREA (AC.)	OPEN SPACE (AC.)	WOODS (AC.)		
pre DA1	2.16	0.12	1.00	1.03	0.31	81
pre DA2	0.66	0.06	0.58	0.01	0.40	85
Total Area	2.82	0.19	1.59	1.04		

Note: A curve number of 77 was assumed for each pre drainage area to provide stormwater controls per section 2.4.3 of the Currituck County Stormwater Manual.

NO.	REVISIONS	DATE	BY

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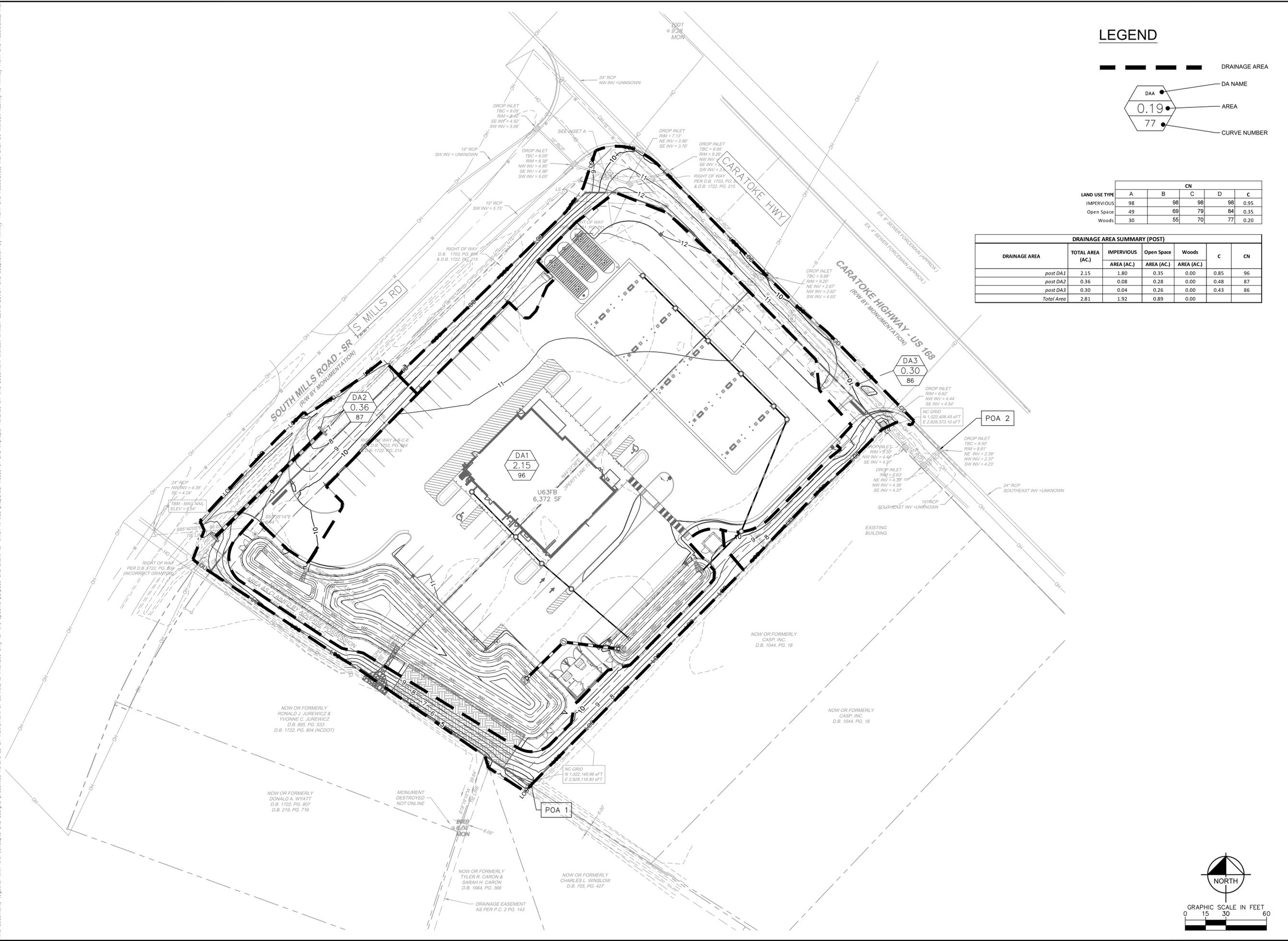
KHA PROJECT 116947009	DATE 05/23/2025	SCALE AS SHOWN	DRAWN BY AZ	CHECKED BY JY
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EXISTING DRAINAGE AREA MAP

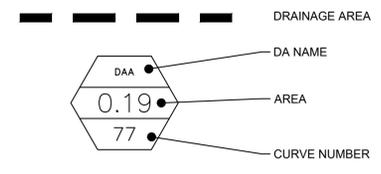
MOYOCK MILLS ROAD
 PREPARED FOR
FRONTIER
 NORTH CAROLINA
 MOYOCK

SHEET NUMBER
CD101

Plotted By: Gurskiy, Carree. Sheet Set: MOYOCK MILLS ROAD - Layout: POST DRAINAGE AREA MAP - Msy. 23, 2025 - 12:16:04pm. K:\vab-civil\WAVA\116947009 - wava_moyock_mills_road\CADD\plansheets\CD102 - POST DRAINAGE AREA MAP.dwg
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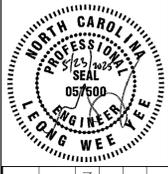


LAND USE TYPE	CN				
	A	B	C	D	C
IMPERVIOUS	98	98	98	98	0.95
Open Space	49	69	79	84	0.35
Woods	30	55	70	77	0.20

DRAINAGE AREA	TOTAL AREA (AC.)	IMPERVIOUS			c	CN
		AREA (AC.)	Open Space AREA (AC.)	Woods AREA (AC.)		
post DA1	2.15	1.80	0.35	0.00	0.85	96
post DA2	0.36	0.08	0.28	0.00	0.48	87
post DA3	0.30	0.04	0.26	0.00	0.43	86
Total Area	2.81	1.92	0.89	0.00		

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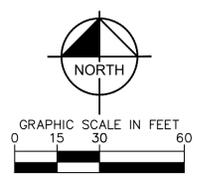


KHA PROJECT	116947009
DATE	05/23/2025
SCALE	AS SHOWN
DESIGNED BY	AZ
DRAWN BY	AZ
CHECKED BY	JY

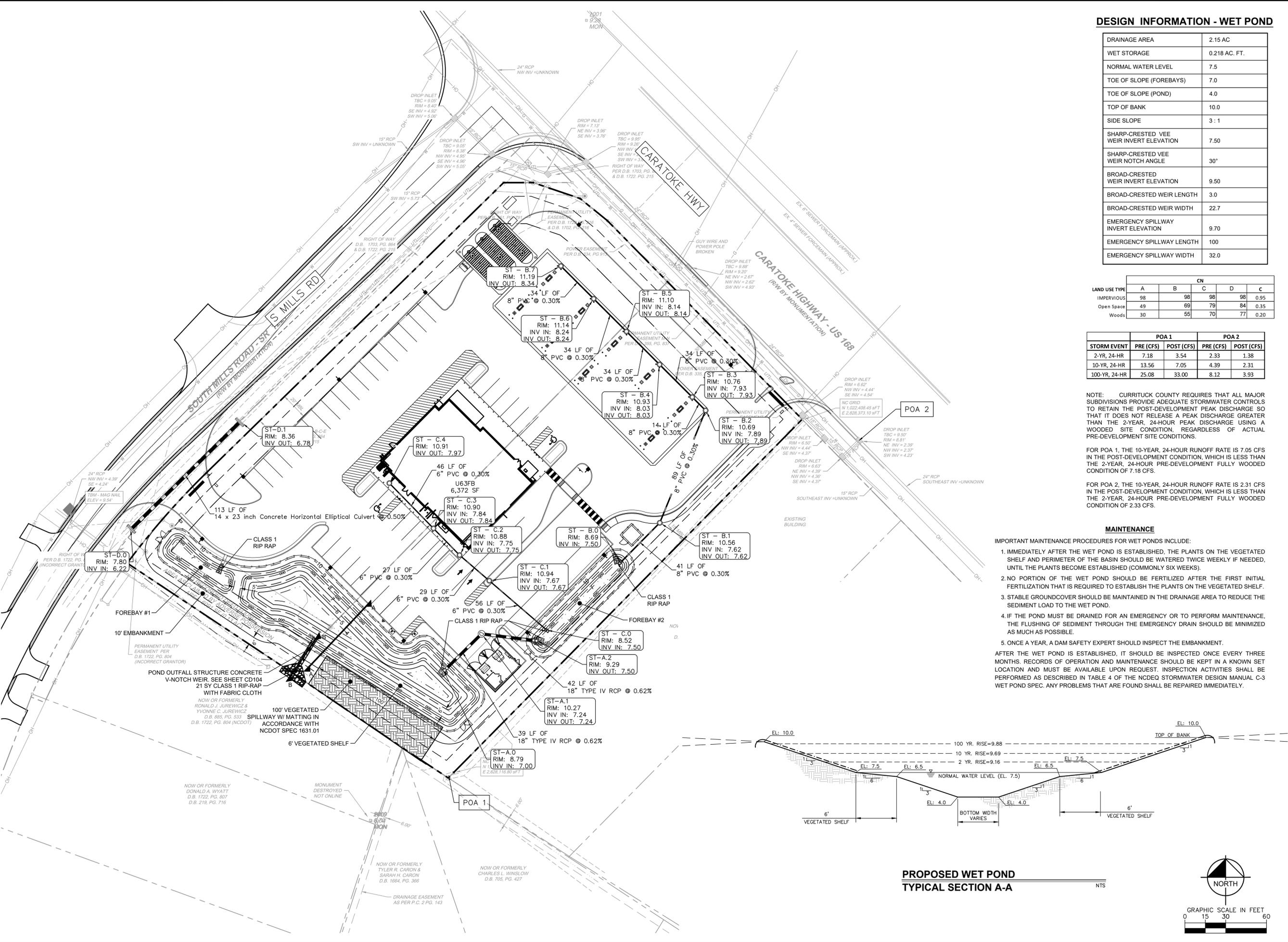
POST DRAINAGE AREA MAP

MOYOCK MILLS ROAD PREPARED FOR FRONTIER

SHEET NUMBER **CD102**



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DESIGN INFORMATION - WET POND

DRAINAGE AREA	2.15 AC
WET STORAGE	0.218 AC. FT.
NORMAL WATER LEVEL	7.5
TOE OF SLOPE (FOREBAYS)	7.0
TOE OF SLOPE (POND)	4.0
TOP OF BANK	10.0
SIDE SLOPE	3 : 1
SHARP-CRESTED VEE WEIR INVERT ELEVATION	7.50
SHARP-CRESTED VEE WEIR NOTCH ANGLE	30°
BROAD-CRESTED WEIR INVERT ELEVATION	9.50
BROAD-CRESTED WEIR LENGTH	3.0
BROAD-CRESTED WEIR WIDTH	22.7
EMERGENCY SPILLWAY INVERT ELEVATION	9.70
EMERGENCY SPILLWAY LENGTH	100
EMERGENCY SPILLWAY WIDTH	32.0

LAND USE TYPE	CN				
	A	B	C	D	c
IMPERVIOUS	98	98	98	98	0.95
Open Space	49	69	79	84	0.35
Woods	30	55	70	77	0.20

STORM EVENT	POA 1		POA 2	
	PRE (CFS)	POST (CFS)	PRE (CFS)	POST (CFS)
2-YR, 24-HR	7.18	3.54	2.33	1.38
10-YR, 24-HR	13.56	7.05	4.39	2.31
100-YR, 24-HR	25.08	33.00	8.12	3.93

NOTE: CURRITUCK COUNTY REQUIRES THAT ALL MAJOR SUBDIVISIONS PROVIDE ADEQUATE STORMWATER CONTROLS TO RETAIN THE POST-DEVELOPMENT PEAK DISCHARGE SO THAT IT DOES NOT RELEASE A PEAK DISCHARGE GREATER THAN THE 2-YEAR, 24-HOUR PEAK DISCHARGE USING A WOODED SITE CONDITION, REGARDLESS OF ACTUAL PRE-DEVELOPMENT SITE CONDITIONS.

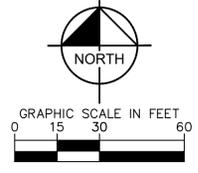
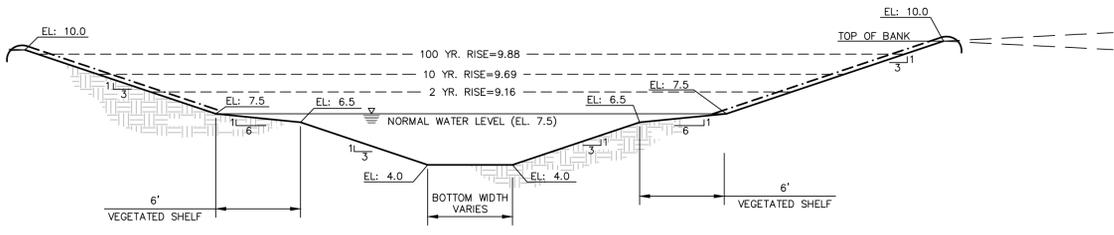
FOR POA 1, THE 10-YEAR, 24-HOUR RUNOFF RATE IS 7.05 CFS IN THE POST-DEVELOPMENT CONDITION, WHICH IS LESS THAN THE 2-YEAR, 24-HOUR PRE-DEVELOPMENT FULLY WOODED CONDITION OF 7.18 CFS.

FOR POA 2, THE 10-YEAR, 24-HOUR RUNOFF RATE IS 2.31 CFS IN THE POST-DEVELOPMENT CONDITION, WHICH IS LESS THAN THE 2-YEAR, 24-HOUR PRE-DEVELOPMENT FULLY WOODED CONDITION OF 2.33 CFS.

MAINTENANCE

- IMPORTANT MAINTENANCE PROCEDURES FOR WET PONDS INCLUDE:
1. IMMEDIATELY AFTER THE WET POND IS ESTABLISHED, THE PLANTS ON THE VEGETATED SHELF AND PERIMETER OF THE BASIN SHOULD BE WATERED TWICE WEEKLY IF NEEDED, UNTIL THE PLANTS BECOME ESTABLISHED (COMMONLY SIX WEEKS).
 2. NO PORTION OF THE WET POND SHOULD BE FERTILIZED AFTER THE FIRST INITIAL FERTILIZATION THAT IS REQUIRED TO ESTABLISH THE PLANTS ON THE VEGETATED SHELF.
 3. STABLE GROUND COVER SHOULD BE MAINTAINED IN THE DRAINAGE AREA TO REDUCE THE SEDIMENT LOAD TO THE WET POND.
 4. IF THE POND MUST BE DRAINED FOR AN EMERGENCY OR TO PERFORM MAINTENANCE, THE FLUSHING OF SEDIMENT THROUGH THE EMERGENCY DRAIN SHOULD BE MINIMIZED AS MUCH AS POSSIBLE.
 5. ONCE A YEAR, A DAM SAFETY EXPERT SHOULD INSPECT THE EMBANKMENT.
- AFTER THE WET POND IS ESTABLISHED, IT SHOULD BE INSPECTED ONCE EVERY THREE MONTHS. RECORDS OF OPERATION AND MAINTENANCE SHOULD BE KEPT IN A KNOWN SET LOCATION AND MUST BE AVAILABLE UPON REQUEST. INSPECTION ACTIVITIES SHALL BE PERFORMED AS DESCRIBED IN TABLE 4 OF THE NCDEO STORMWATER DESIGN MANUAL C-3 WET POND SPEC. ANY PROBLEMS THAT ARE FOUND SHALL BE REPAIRED IMMEDIATELY.

**PROPOSED WET POND
TYPICAL SECTION A-A**



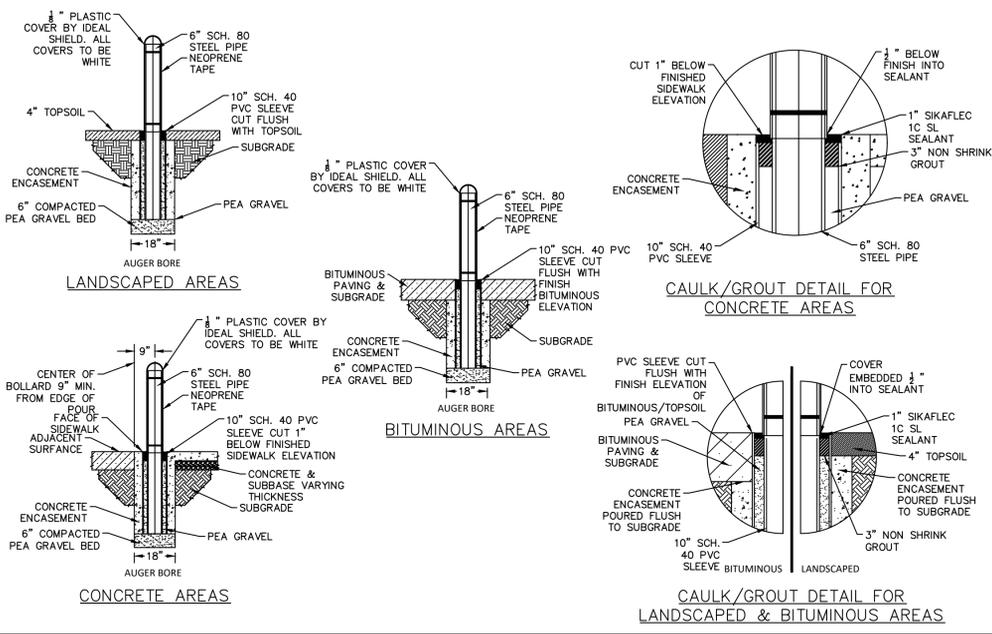
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BY _____

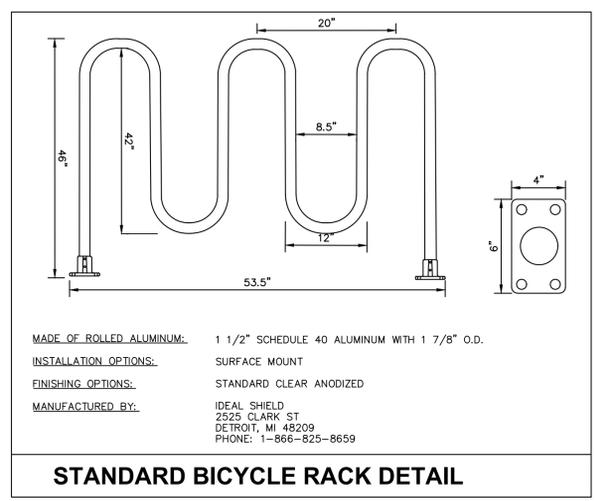
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DATE _____

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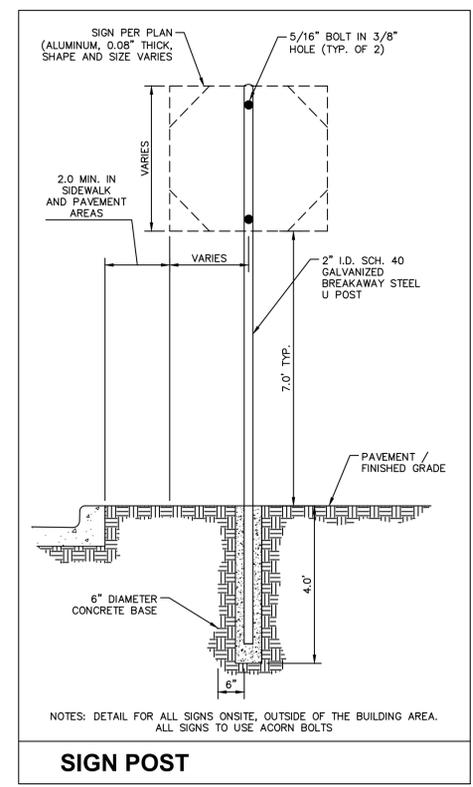
SITE DETAILS



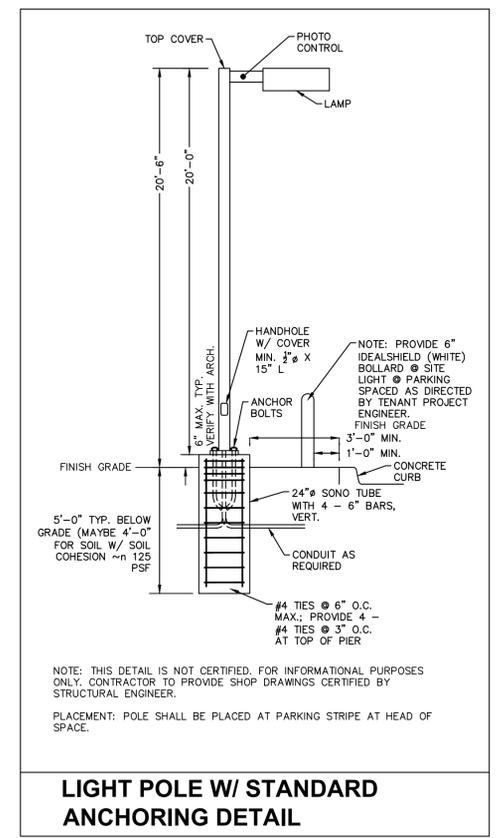
BOLLARD DETAIL



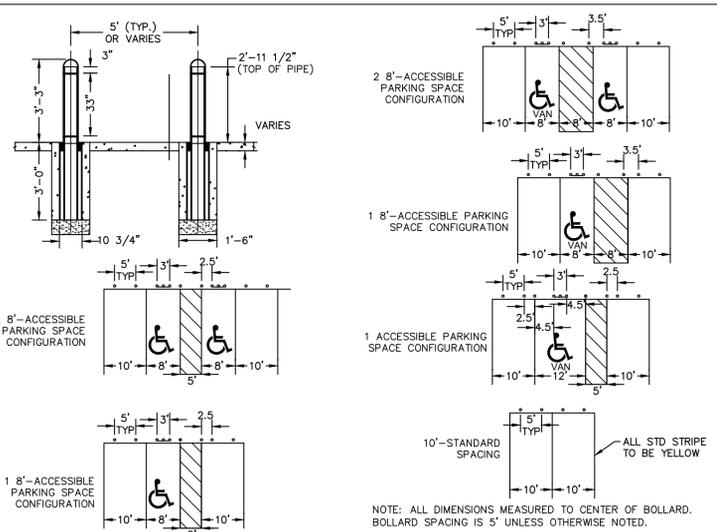
STANDARD BICYCLE RACK DETAIL



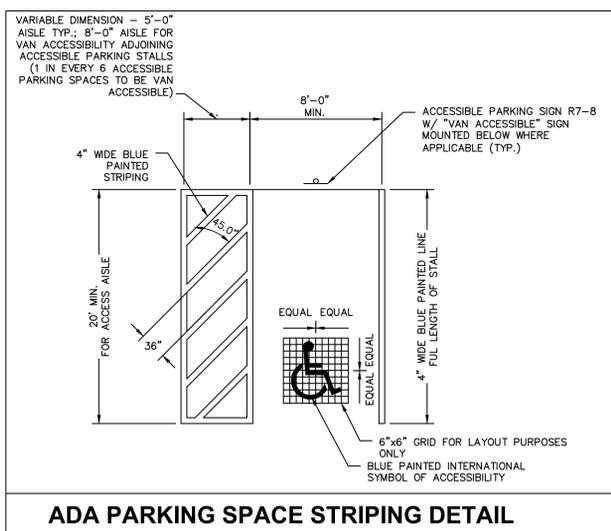
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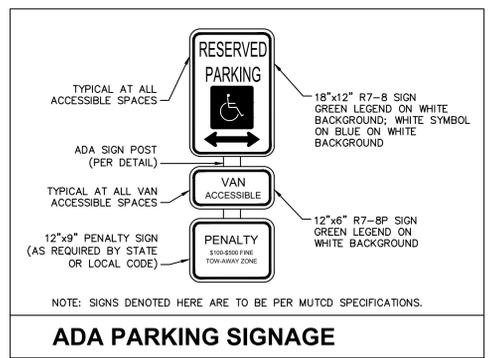
LIGHT POLE W/ STANDARD ANCHORING DETAIL



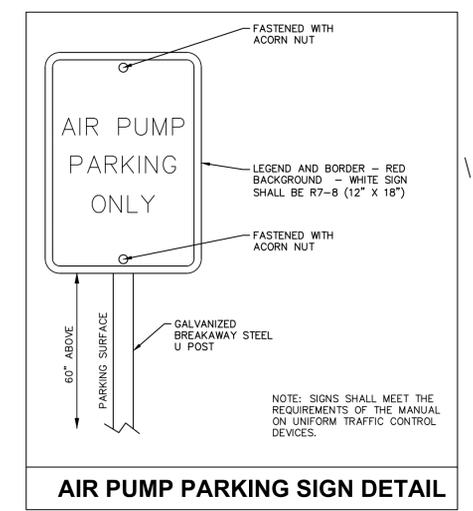
BOLLARD SPACING/DIMENSION DETAIL



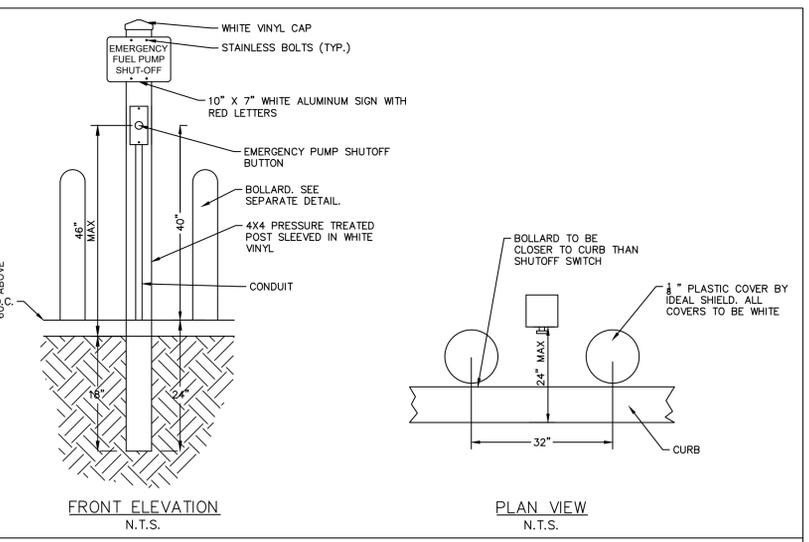
ADA PARKING SPACE STRIPING DETAIL



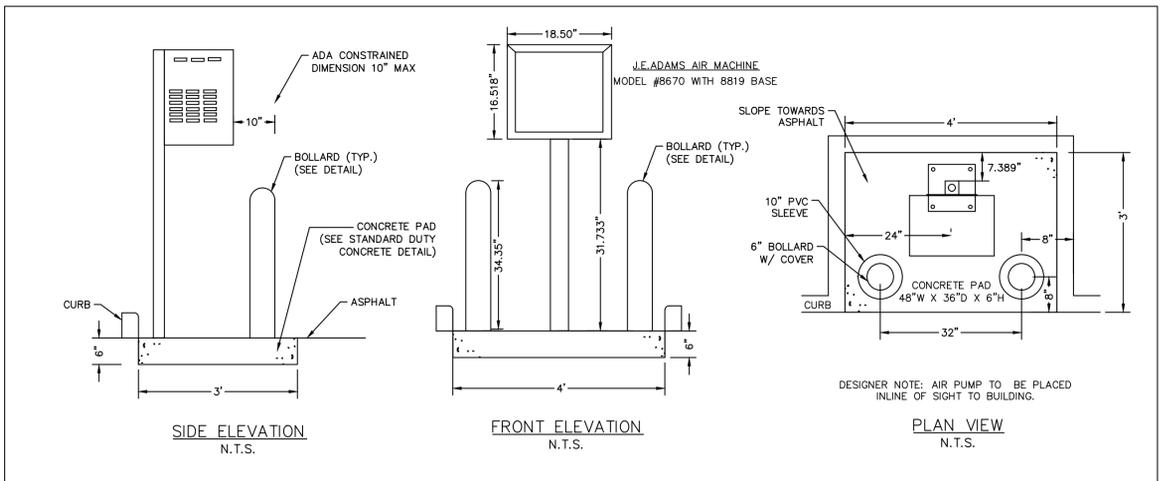
ADA PARKING SIGNAGE



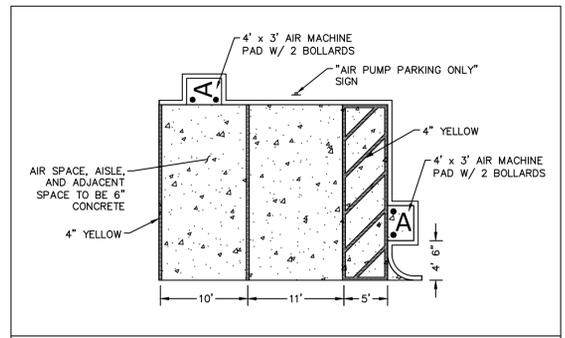
AIR PUMP PARKING SIGN DETAIL



EMERGENCY PUMP SHUTOFF ("E-STOP") DETAIL



AIR PUMP STANDARD DETAIL

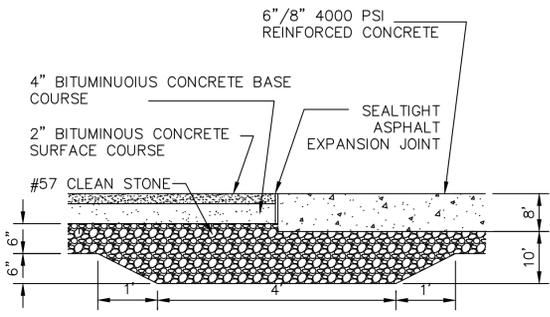


AIR PUMP PARKING DETAIL

		PROJECT: KHA PROJECT 116947009 DATE: 05/23/2025 SCALE: AS SHOWN DESIGNED BY: AZ DRAWN BY: ALL CHECKED BY: LWY
MOYOCK MILLS ROAD PREPARED FOR FRONTIER		NORTH CAROLINA
SHEET NUMBER CS501		MOYOCK

LANDSPACE SPECIFICATIONS

- TENANT STANDARD LANDSCAPING SPECIFICATIONS:**
- ALL TOPSOIL SHALL BE A MINIMUM 4" IN ALL SOD AREAS AND 10" - 12" IN TREE, SHRUB AND GROUND COVER BEDS, INCLUDING PARKING LOT ISLAND BEDS. IT SHALL BE APPROVED BY A TENANT CONSTRUCTION REPRESENTATIVE, PRIOR TO INSTALLATION.
 - PLANTING BEHIND PERPENDICULAR PARKING IS TO BE LOCATED A MINIMUM OF 5' BEHIND THE CURB LINE.
 - ALL LANDSCAPE AND GRASS AREAS ARE TO BE HAND RAKED AND LEFT CLEAR OF ALL STONES, ROCK, CONSTRUCTION DEBRIS AND ANY UNSUITABLE MATERIALS.
 - ALL LANDSCAPE AND GRASS AREAS ARE TO BE IRRIGATED BY AUTOMATIC SPRINKLER SYSTEM. (SEE IRRIGATION SPECIFICATION.)
 - LANDSCAPE CONTRACTOR WILL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION AND PLANTING INSTALLATION.
 - ALL AREAS TO BE LANDSCAPED OR COVERED WITH STONE MUST BE TREATED WITH A PRE-EMERGENCE HERBICIDE (SURFLAN, DACTAL OR APPROVED EQUAL) IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE REGULATIONS AND THE MANUFACTURER'S INSTRUCTIONS.
 - MULCH BEDS ARE TO BE DELINEATED WITH HAND OR MACHINE DUG SHOVEL EDGING.
 - RIVER ROCK BEDS ARE TO BE DELINEATED WITH 5/8" ALUMINUM LANDSCAPE EDGING, STAKED AT 3' INTERVALS. ALUMINUM EDGING IS TO BE CLEANLINE 3/16" X 5/8" X 16' BY PERMALOC. (800-356-9660, WWW.PERMALOC.COM.) FOLLOW MANUFACTURER'S INSTALLATION DIRECTIONS INCLUDED AT THE END OF THIS SECTION.
 - LANDSCAPE CONTRACTOR TO SUPPLY AND INSTALL A PERVIOUS WEED BARRIER (DEWITT, DUPONT OR APPROVED EQUAL) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS WITHIN ALL LANDSCAPES, INCLUDING STONE AND MULCH BEDS. ALL WEED BARRIER WILL BE OVERLAPPED A MINIMUM OF 6" AT ALL SEAMS. AT PLANT LOCATIONS, BARRIER SHOULD BE CUT IN AN "X" PATTERN SO TO ACCOMMODATE ROOT BALL AND REPLACED AFTER PLANT HAS BEEN INSTALLED.
 - WEED BARRIER SHALL NOT BE VISIBLE IN AREAS DESIGNATED FOR STONE MULCH. WHEN STONE IS CALLED FOR ADJACENT TO CURB OR SIDEWALKS, IT SHALL BE FEATHERED DOWN TO CURB LEVEL FROM A DISTANCE 24" FROM THE CURB.
 - ALL PROPOSED LANDSCAPING TO BE NURSERY GROWN, TYPICAL OF THEIR SPECIES OR VARIETY. THEY ARE TO HAVE NORMAL VIGOROUS ROOT SYSTEMS, FREE FROM DEFECTS AND INFECTIONS AND IN ACCORDANCE WITH ANSI Z60.1
 - ALL PROPOSED PLANTINGS SHOULD BE INSTALLED PER STANDARDS OF THE "AMERICAN ASSOCIATION OF NURSERYMEN" AND STATE NURSERY/ LANDSCAPE ASSOCIATIONS WITH REGARD TO PLANTING, PIT SIZE, BACKFILL MIXTURE, STAKING AND GUYING.
 - ALL PLANTING CONTAINERS AND BASKETS SHALL BE REMOVED DURING PLANTING. ALL PLANTS SHALL BE SET PLUMB AND POSITIONED SO THAT THE TOP OF THE ROOT COLLAR MATCHES OR IS NO MORE THAN TWO (2") INCHES ABOVE, FINISHED GRADE. REPLACE AMENDED BACKFILL IN 6-INCH LAYERS AND COMPACT BACKFILL TO ELIMINATE VOIDS. CONTRACTOR SHALL PROVIDE A FOUR INCH HIGH EARTHEN WATERING SAUCER ALONG THE PERIMETER OF EACH PLANTING PIT. CONTRACTOR SHALL WATER NEWLY PLANTED VEGETATION PRIOR TO MULCHING PLANTING PIT. ALL VOIDS SHALL BE FILLED AND SETTLING MITIGATED AS REQUIRED. ALUMINUM EDGING SHALL BE INSTALLED AROUND ALL PLANTING AREAS TO DELINEATE BETWEEN DIFFERENT LANDSCAPE MATERIALS.
 - AFTER INITIAL WATERING AND PRIOR TO MULCHING, CONTRACTOR SHALL APPLY HERBICIDES AND PRE-EMERGENT HERBICIDES AS REQUIRED TO ELIMINATE ANY WEED SEEDS OR PLANTS PRESENT ON ROOT BALL.
 - ALL PLANTING BEDS AND PITS EXCEPT FOR LANDSCAPE ISLANDS ADJACENT TO THE BUILDING AND DESIGNATED AREA AT THE FUEL VENT STACKS, SHALL BE MULCHED WITH DOUBLE GROUND HARDWOOD MULCH AT A MINIMUM DEPTH OF 3". LANDSCAPE ISLANDS ADJACENT TO THE TANK MAT SHALL BE MULCHED WITH 1"-3" RIVER STONE MULCH TO AT LEAST A DISTANCE OF 5' FROM THE TANK MAT AND VENT STACK. FOR LANDSCAPES ADJACENT TO BUILDING, CONTACT TENANT'S PROJECT ENGINEER.
 - TURF SPECIFICATION AND SEEDBED PREPARATION
 - UNLESS REQUIRED FOR PARTICULAR BMP AREAS, ALL TURF ON TENANT'S LEASED PREMISES IS TO BE SOD. WHEN REQUIRED FOR BMP'S, SEED MIX IS TO MEET LOCAL REQUIREMENTS. SOD SHALL BE TURF TYPE TALL FESCUE AND INSTALLED ON A MINIMUM OF 4" OF TOPSOIL.
 - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS OR FERTILIZER MAY BE APPLIED AT THE RATE OF 260 POUNDS PER ACRE OR 6 POUNDS PER 1000 SQUARE FEET USING 10-20-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS 4-1-2 PER ACRE OR EQUIVALENT OF SLOW-RELEASE NITROGEN MAY BE USED IN LIEU OF TOPDRESSING.
 - WORK LIME AND FERTILIZER INTO THE SOIL AS PRACTICAL TO A DEPTH OF 4-INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD PARALLEL TO THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
 - INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS OUTLINED BELOW.
 - PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETENESS. THE CONTRACTOR SHALL REPLACE PLANTS, DEAD, UNHEALTHY, DYING OR DAMAGED THROUGH LOSS OF BRANCHES AND/OR FOLIAGE. LAINNS THAT ARE NOT IN GOOD CONDITION AT THE END OF THE GUARANTEE PERIOD SHALL BE REPAIRED UNTIL A GOOD LAWN RESULTS. IT IS UNDERSTOOD THAT THE OWNER SHALL ASSUME RESPONSIBILITY FOR WATERING ALL PLANT MATERIAL AND LAWN AREA BEGINNING WITH THE DATE OF SUBSTANTIAL COMPLETENESS.

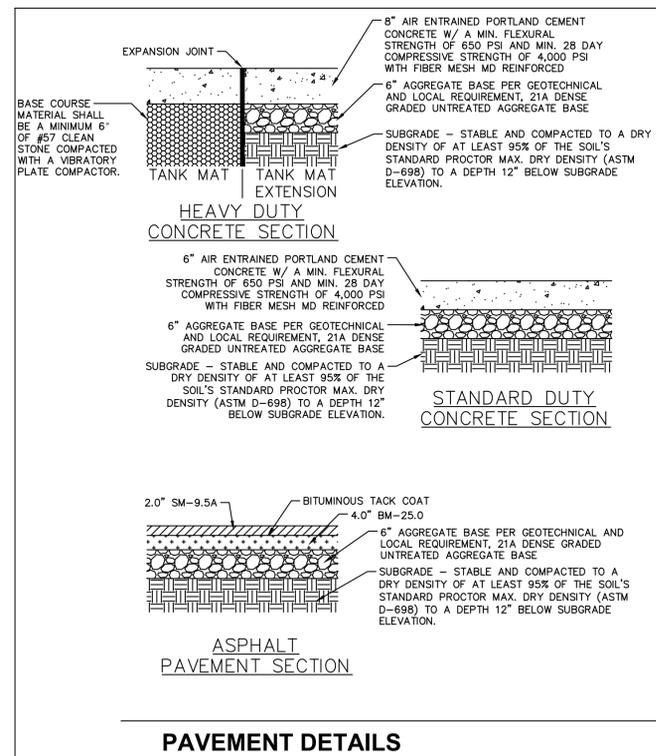


CONCRETE TO ASPHALT TRANSITION DETAIL

SEE ARCH. SPEC. FOR COMPLETE DETAILS

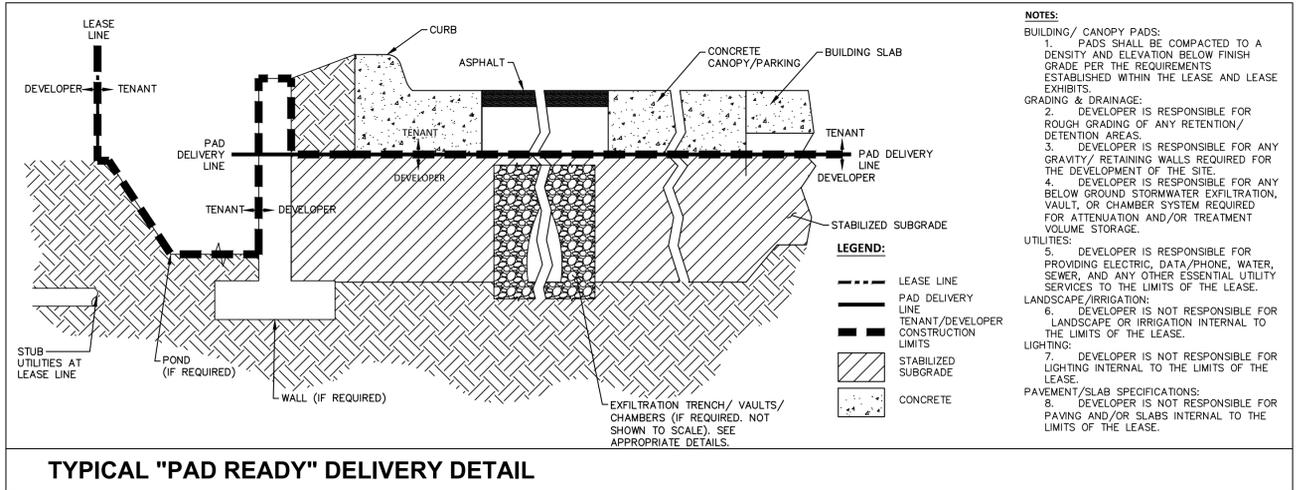
*REFER TO PAVEMENT PLAN FOR PAVEMENT SECTION THICKNESS

PAVEMENT DETAILS



PAVEMENT DETAILS

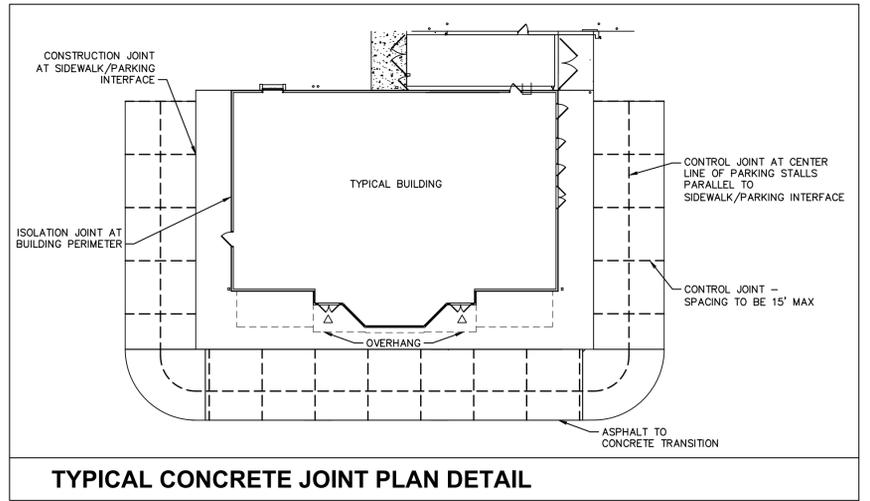
DEVELOPER DETAILS



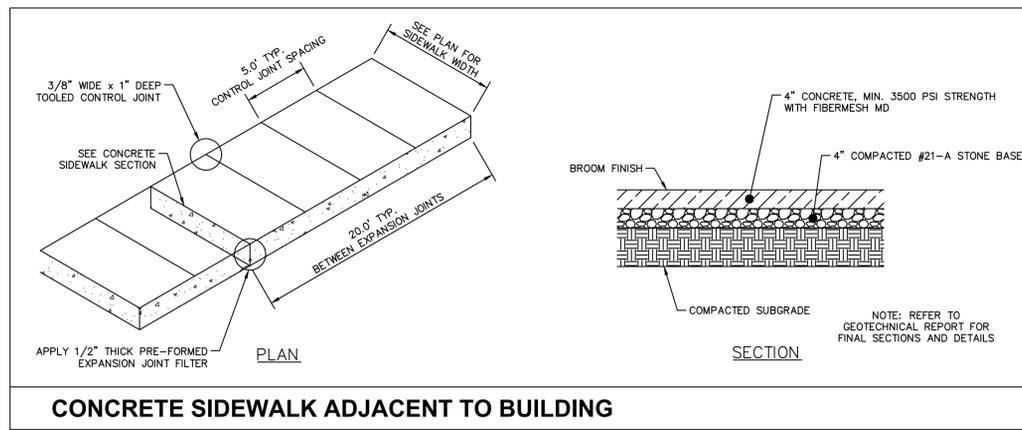
TYPICAL "PAD READY" DELIVERY DETAIL

- LINE PAINT:**
SHERWIN WILLIAMS
TM2153 YELLOW
TM2152 WHITE
TM2135 BLACK
TM2152 FOR HANDICAP BLUE
- BOLLARD PAINT:**
SHERWIN WILLIAMS
DTM SEMI GLOSS BLUE
FIRE ENGINE RED
- TEMPLATE SIZES:**
LARGE HOOKED ARROW - 58" X 51"
"ONLY" TEMPLATE - 46" X 60"
LARGE STRAIGHT ARROW - 48" 60"

STANDARD PAINT SPECIFICATIONS



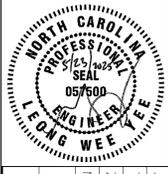
TYPICAL CONCRETE JOINT PLAN DETAIL



CONCRETE SIDEWALK ADJACENT TO BUILDING

NO.	REVISIONS	DATE	BY

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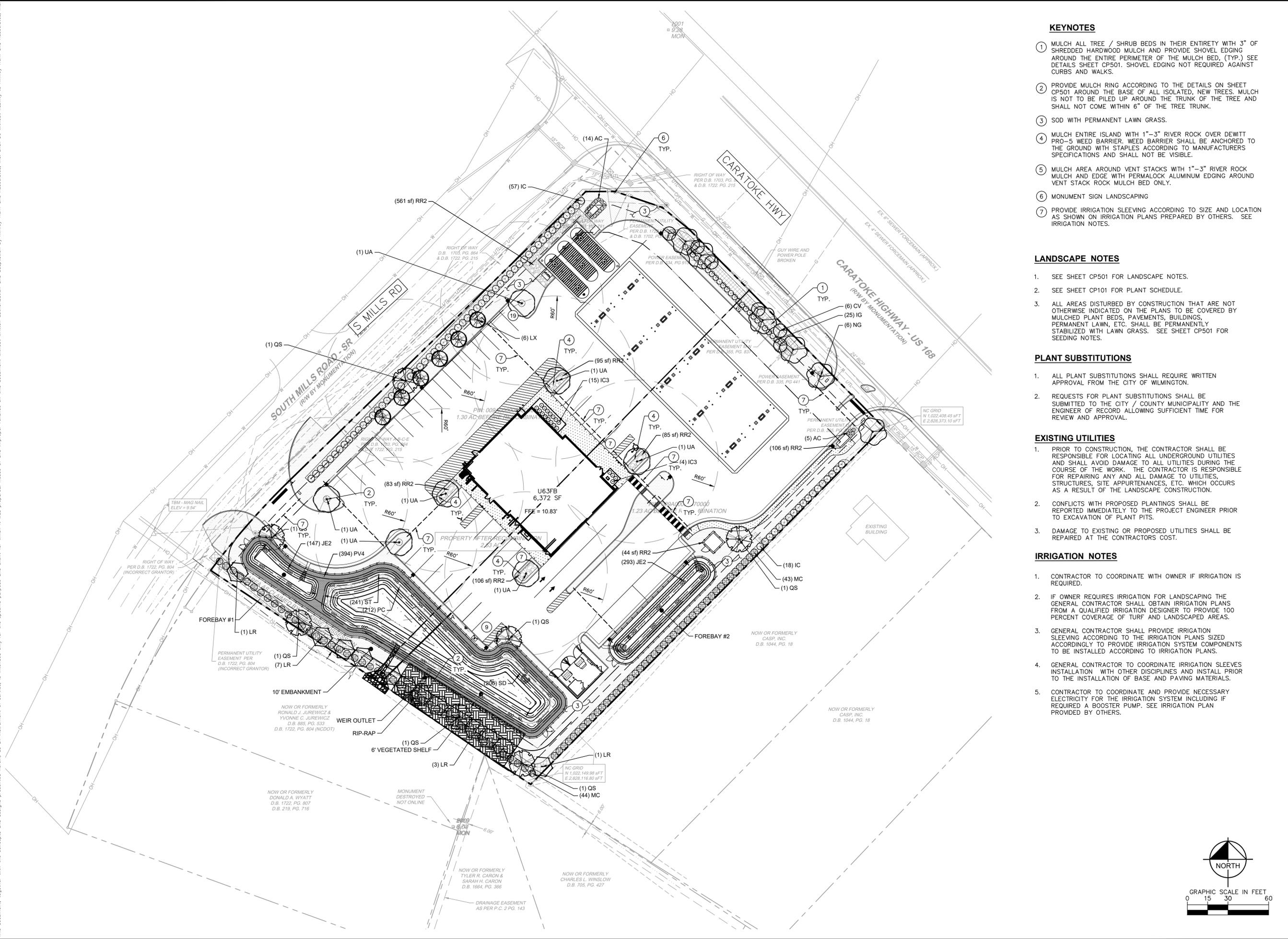
KHA PROJECT	116947009
DATE	05/23/2025
SCALE	AS SHOWN
DESIGNED BY	AZ
DRAWN BY	ALL
CHECKED BY	LWY

STANDARD DETAILS

MOYOCK MILLS ROAD
PREPARED FOR
FRONTIER
NORTH CAROLINA

Plotted By: Gurasky, Carree. Sheet Set: MOYOCK MILLS ROAD - Layout: CS502 CONSTRUCTION DETAILS - May 23, 2025, 12:23:01pm. K:\web-civil\WAWA\116947009 - wawa.moyock.mills.road\CADD\plan\sheet\CS502_CONSTRUCTION_DETAILS.dwg
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Plotted By: Curasky, Carree. Sheet Set: MOYOCK MILLS ROAD - Layout: PLANTING PLAN. May 23, 2025 12:23:21pm. K:\vba\civa\WAVA\16947009 - wava moeck mills road\CADD\plansheets\CP100 PLANTING PLAN.dwg
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KEYNOTES

- ① MULCH ALL TREE / SHRUB BEDS IN THEIR ENTIRETY WITH 3" OF SHREDDED HARDWOOD MULCH AND PROVIDE SHOVEL EDGING AROUND THE ENTIRE PERIMETER OF THE MULCH BED, (TYP.) SEE DETAILS SHEET CP501. SHOVEL EDGING NOT REQUIRED AGAINST CURBS AND WALKS.
- ② PROVIDE MULCH RING ACCORDING TO THE DETAILS ON SHEET CP501 AROUND THE BASE OF ALL ISOLATED, NEW TREES. MULCH IS NOT TO BE PILED UP AROUND THE TRUNK OF THE TREE AND SHALL NOT COME WITHIN 6" OF THE TREE TRUNK.
- ③ SOD WITH PERMANENT LAWN GRASS.
- ④ MULCH ENTIRE ISLAND WITH 1"-3" RIVER ROCK OVER DEWITT PRO-5 WEED BARRIER. WEED BARRIER SHALL BE ANCHORED TO THE GROUND WITH STAPLES ACCORDING TO MANUFACTURERS SPECIFICATIONS AND SHALL NOT BE VISIBLE.
- ⑤ MULCH AREA AROUND VENT STACKS WITH 1"-3" RIVER ROCK MULCH AND EDGE WITH PERMALOCK ALUMINUM EDGING AROUND VENT STACK ROCK MULCH BED ONLY.
- ⑥ MONUMENT SIGN LANDSCAPING
- ⑦ PROVIDE IRRIGATION SLEEVING ACCORDING TO SIZE AND LOCATION AS SHOWN ON IRRIGATION PLANS PREPARED BY OTHERS. SEE IRRIGATION NOTES.

LANDSCAPE NOTES

1. SEE SHEET CP501 FOR LANDSCAPE NOTES.
2. SEE SHEET CP101 FOR PLANT SCHEDULE.
3. ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE NOT OTHERWISE INDICATED ON THE PLANS TO BE COVERED BY MULCHED PLANT BEDS, PAVEMENTS, BUILDINGS, PERMANENT LAWN, ETC. SHALL BE PERMANENTLY STABILIZED WITH LAWN GRASS. SEE SHEET CP501 FOR SEEDING NOTES.

PLANT SUBSTITUTIONS

1. ALL PLANT SUBSTITUTIONS SHALL REQUIRE WRITTEN APPROVAL FROM THE CITY OF WILMINGTON.
2. REQUESTS FOR PLANT SUBSTITUTIONS SHALL BE SUBMITTED TO THE CITY / COUNTY MUNICIPALITY AND THE ENGINEER OF RECORD ALLOWING SUFFICIENT TIME FOR REVIEW AND APPROVAL.

EXISTING UTILITIES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
2. CONFLICTS WITH PROPOSED PLANTINGS SHALL BE REPORTED IMMEDIATELY TO THE PROJECT ENGINEER PRIOR TO EXCAVATION OF PLANT PITS.
3. DAMAGE TO EXISTING OR PROPOSED UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS COST.

IRRIGATION NOTES

1. CONTRACTOR TO COORDINATE WITH OWNER IF IRRIGATION IS REQUIRED.
2. IF OWNER REQUIRES IRRIGATION FOR LANDSCAPING THE GENERAL CONTRACTOR SHALL OBTAIN IRRIGATION PLANS FROM A QUALIFIED IRRIGATION DESIGNER TO PROVIDE 100 PERCENT COVERAGE OF TURF AND LANDSCAPED AREAS.
3. GENERAL CONTRACTOR SHALL PROVIDE IRRIGATION SLEEVING ACCORDING TO THE IRRIGATION PLANS SIZED ACCORDINGLY TO PROVIDE IRRIGATION SYSTEM COMPONENTS TO BE INSTALLED ACCORDING TO IRRIGATION PLANS.
4. GENERAL CONTRACTOR TO COORDINATE IRRIGATION SLEEVES INSTALLATION WITH OTHER DISCIPLINES AND INSTALL PRIOR TO THE INSTALLATION OF BASE AND PAVING MATERIALS.
5. CONTRACTOR TO COORDINATE AND PROVIDE NECESSARY ELECTRICITY FOR THE IRRIGATION SYSTEM INCLUDING IF REQUIRED A BOOSTER PUMP. SEE IRRIGATION PLAN PROVIDED BY OTHERS.

No.	REVISIONS	DATE	BY

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SCALE	AS SHOWN
DESIGNED BY	AZ
DRAWN BY	ALL
CHECKED BY	LWY

PLANTING PLAN

MOYOCK MILLS ROAD
 PREPARED FOR
FRONTIER
 NORTH CAROLINA
 MOYOCK

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PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	CAL.	HT.
TREES							
	CV	6	CHIONANTHUS VIRGINICUS SINGLE TRUNK / STEM	WHITE FRINGETREE	B&B	2" CAL	
	LR	12	LAGERSTROEMIA INDICA X FAURIEI 'TUSCARORA'	TUSCARORA CRAPE MYRTLE MULTI-TRUNK	B&B	2.5" CAL. MIN.	12'-14' MIN.
	LX	6	LAGERSTROEMIA X 'NATCHEZ'	CRAPE MYRTLE	B&B		8' HT. MIN.
	NG	6	NYSSA SYLVATICA 'GREEN GABLE' TM	BLACK GUM	B & B	3.5" CAL. MIN.	
	QS	7	QUERCUS SHUMARDII	SHUMARD OAK	B&B	2" CAL. MIN.	
	UA	7	ULMUS PARVIFOLIA 'ALLEE'	ALLEE® LACEBARK ELM	B&B	2" CAL. MIN.	12'-14' MIN.
SHRUBS							
	AC	19	ABELIA X GRANDIFLORA 'CONTI'	CONFETTI® VARIEGATED ABELIA	3 GAL. MIN.	12" HT. MIN.	
	IC	75	ILEX CORNUTA 'BURFORDII NANA'	DWARF BURFORD HOLLY	CONT.	36" HT. MIN.	
	IG	25	ILEX GLABRA	INKBERRY HOLLY	CONT.	18" HT. MIN.	
	IC3	19	ILEX VOMITORIA 'CONDEAUX'	BORDEAUX® YAUPON HOLLY	3 GAL. MIN.	12" HT. MIN.	
	MC	87	MYRICA CERIFERA	WAX MYRTLE	CONT.	36" HT. MIN.	
GROUND COVERS							
	RR2	1,080 SF	RIVER ROCK MULCH PROVIDE SAMPLE TO OWNER FOR APPROVAL PRIOR TO PURCHASE. SEE NOTES.	1"-3" RIVER ROCK	BULK		
	SH	7,475 SF	SHREDDED HARDWOOD MULCH		BULK		
	SOD	19,188 SF	SOD OR EQUAL	TURF	SOD		
BMP PLANTS							
	PV4	394	PANICUM VIRGATUM	SWITCH GRASS	1.6" X 5" DEEP PLUG		36" o.c.
FORBAY FRINGE							
	JE2	440	JUNCUS EFFUSUS	COMMON RUSH	1.6" X 5" DEEP PLUG		24" o.c.
AQUATIC SHELF							
	PC	212	PONTERDERIA CORDATA UP TO 12" INUNDATION	PICKEREL WEED	QUART		24" o.c.
	SD	206	SAGITTARIA LANCIFOLIA UP TO 24" INUNDATION	DUCK POTATO	QUART		24" o.c.
	ST	241	SCHOENOPLECTUS TABERNAEMONTANI UP TO 12" INUNDATION	SOFTSTEM BULRUSH	1.6" X 5" DEEP PLUG		24" o.c.

LANDSCAPE REQUIREMENTS & CALCULATIONS

Cumituck County UDO						
AREA TO BE LANDSCAPED	LOCATION	CODE REQUIREMENT	SQUARE FEET/ LINEAR FEET	TOTAL QUANTITY REQUIRED	TOTAL QUANTITY PROVIDED	CODE SECTION
VEHICULAR USE AREA LANDSCAPING	VEHICULAR USE AREA	NO PARKING SPACE SHALL BE SEPARATED FROM THE TRUNK OF A CANOPY TREE BY MORE THAN 60'	N/A	AS NEEDED TO FULFILL REQUIREMENT	AS SHOWN	5.2.5
		WHERE A VEHICULAR USE AREA ABUTS A STREET RIGHT-OF-WAY, VACANT LAND, OR ANY OTHER DEVELOPMENT, PERIMETER LANDSCAPING STRIPS SHALL BE PROVIDED: VISUAL SCREEN 36" MIN HT. AND 5' MIN WIDTH OF EVERGREEN SHRUBS SPACED 5' O.C. BUFFER SHALL CREATE SLIGHT VISUAL OBSTRUCTION	N/A	AS NEEDED TO FULFILL REQUIREMENT	AS SHOWN	
MAJOR ARTERIAL STREETSCAPE LANDSCAPING	CARATOKE HWY	8 ACI* CANOPY TREES + 4.5 ACI UNDERSTORY TREES + 10 SHRUBS PER 100 LF WITHIN 100' OF HIGHWAY ROW	247.44LF	20 ACI CANOPY TREES 12 ACI UNDERSTORY TREES 25 SHRUBS	21 ACI CANOPY TREES 12 ACI UNDERSTORY TREES 25 SHRUBS	5.2.8
		2 ACI* CANOPY TREES PER ACRE = AT LEAST 1 SHRUB PER 5 FEET OF BUILDING FAÇADE FACING A STREET. SITE LANDSCAPING IS LANDSCAPING THAT IS NOT: 1. REQUIRED VEHICULAR USE AREA LANDSCAPING. 2. LOCATED WITHIN A REQUIRED PERIMETER BUFFER. 3. REQUIRED SCREENING.	2.54AC. 91.9 LF NC-168	6 ACI CANOPY TREES 19 SHRUBS	8 ACI CANOPY TREES 19 SHRUBS	5.2.4
			68.0 LF S. MILLS RD.	14 SHRUBS	SEE BELOW***	
TYPE B: AESTHETIC BUFFER ALONG SFM ZONED PROPERTY	SOUTHWEST PROPERTY LINE	10' OPTION 2 TYPE B BUFFER (AESTHETIC BUFFER); 2 ACI CANOPY TREES + 10 ACI UNDERSTORY TREES + 15 SHRUBS PER 100 LF	291.00LF	6 ACI CANOPY TREES 30 ACI UNDERSTORY TREES 44 SHRUBS	6 ACI CANOPY TREES 30 ACI UNDERSTORY TREES 44 SHRUBS	5.2.6

*ACI = AGGREGATE CALIPER INCHES

*** (6) 8" HIGH AT INSTALLATION CREPE MYRTLES PROPOSED ALONG SOUTH MILLS FOR ALTERNATE FOUNDATION.

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KHA PROJECT
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SCALE AS SHOWN
DESIGNED BY AZ
DRAWN BY ALL
CHECKED BY LWY

PLANT SCHEDULE AND CALCULATIONS

MOYOCK MILLS ROAD
 PREPARED FOR
FRONTIER
 NORTH CAROLINA
 MOYOCK

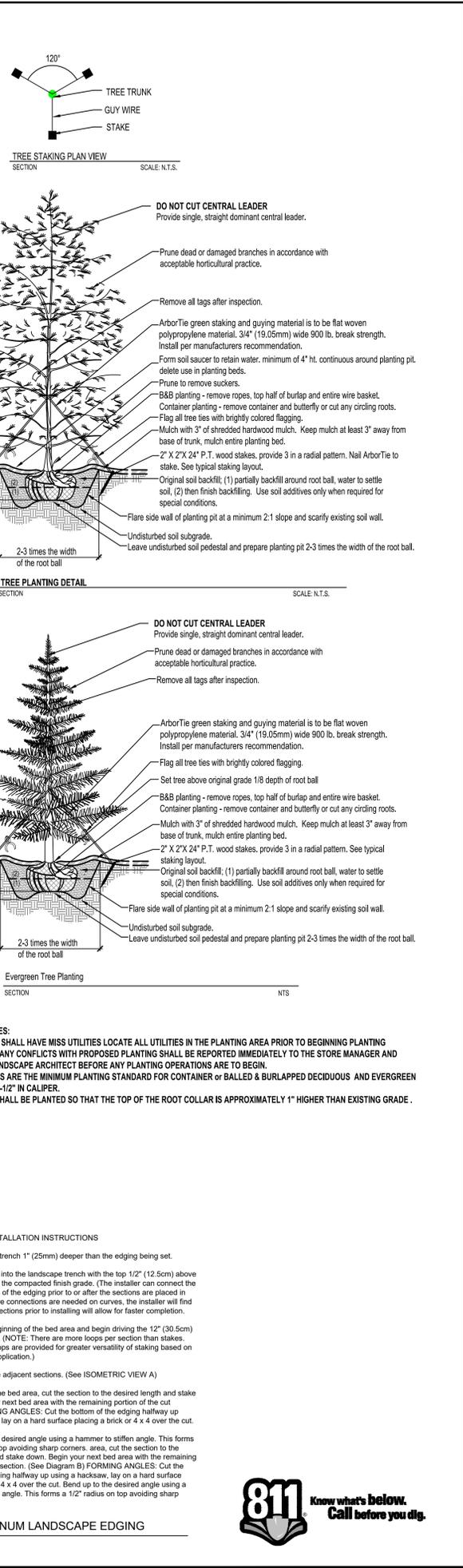
SHEET NUMBER
CP101

Printed By: Gurskiy, Corrie... Sheet: S01-MOYOCK MILLS ROAD... WAWA 116947009... KHA PROJECT 116947009... DATE 05/23/2025... SCALE AS SHOWN... DESIGNED BY JY... DRAWN BY AL... CHECKED BY JY... NORTH CAROLINA... MOYOCK MILLS ROAD... FRONTIER... SHEET NUMBER CP501

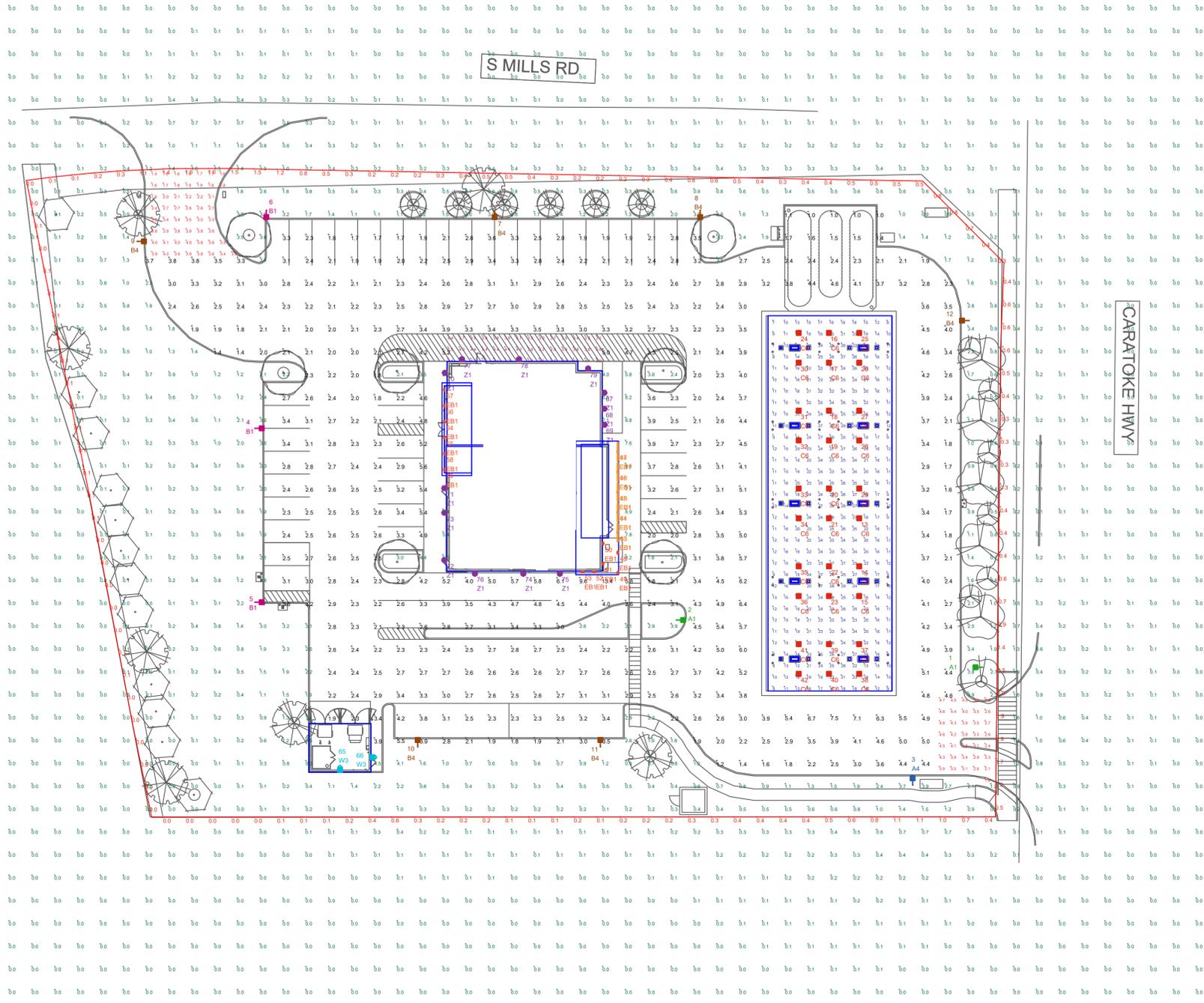
PLANTING SPECIFICATIONS
1. SOILS TESTING
A. All soil testing shall be done at the contractor's expense...
2. DELIVERY, HANDLING AND STORAGE:
D. Deliver packaged materials in manufacturer's unopened containers...
3. DRAINAGE:
A. The landscape contractor is responsible for drainage tests...
4. PLANTING DATES:
A. Deciduous Trees and Shrubs: March 1 to May 31...
5. MATERIALS FOR PLANTING:
A. Topsoil: shall be a fertile, friable natural loam...
6. PLANT MATERIALS:
A. Plants shall be nursery grown in accordance with good horticultural practices...

8. INSPECTION:
A. EXAMINE THE AREAS AND CONDITIONS WHERE SOIL MIX IS TO BE INSTALLED...
9. SOIL INSTALLATION - GENERAL PROCEDURES:
G. IF SUBGRADE SOIL COMPACTION EXCEEDS 80%, EXISTING SOIL SHALL BE RIPPED TO A DEPTH OF 12 INCH...
10. SOIL INSTALLATION - GENERAL PROCEDURES CONTINUED:
K. Install specified soil in 12"-18" thick lifts...
11. INSTALLATION OF SOIL MIX FOR LAWN AREAS ON GRADE:
A. Soil Mix for Lawns on Grade: shall consist of 10% compost and 90% topsoil...
12. INSTALLATION OF SOIL MIX FOR TREE PITS ON GRADE:
A. Confirm that native subsoil drains at a rate of at least 1/2" per hour...
13. INSTALLATION OF SOIL MIX FOR MULCHED SHRUB AND PERENNIAL BEDS:
A. Confirm that native subsoil drains at a rate of at least 1/2" per hour...
14. GENERAL PLANT INSTALLATION:
A. Excavation: Excavate all tree pits and planting areas to the width and depth shown...
15. MAINTENANCE AND GUARANTEE:
A. The landscape contractor shall be responsible for maintaining his work until final acceptance...
16. PERMANENT SODDING FOR LAWN AREAS:
A. Sod varieties shall be an improved variety turf-type sod known to perform well in the project area...

17. LAWN MAINTENANCE:
A. Within the contract limits, the contractor shall produce a dense, well established lawn...
18. ACCEPTANCE:
A. A stand of grass shall be considered acceptable when the turf cover is at least 95%...
19. TREE STAKING PLAN VIEW SECTION:
SCALE: N.T.S.
20. TREE PLANTING DETAIL SECTION:
SCALE: N.T.S.
21. SHRUB PLANTING DETAIL SECTION:
SCALE: N.T.S.
22. GROUNDCOVER PLANTING SECTION:
SCALE: N.T.S.
23. GROUNDCOVER SPACING SECTION:
SCALE: N.T.S.
24. TRENCH EDGE DETAIL AT LAWN / MULCH BED INTERFACE SECTION:
SCALE: N.T.S.
25. PERMALOC CORPORATION:
13505 BARRY ST
HOLLAND, MI 49424
TOLL FREE: 1-800-356-9660
WWW.PERMALOC.COM
(616) 399-9770



MOYOCK MILLS ROAD PREPARED FOR FRONTIER SHEET NUMBER CP501
KIMLEY HORN
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NORTH CAROLINA PROFESSIONAL SEAL: JOSEPH A. WATKINS, 1190, 11/12/16/2024



ANY ILLUMINATED SIGNS?

THIS SITE IS LOCATED IN A REGION WHERE LIGHTING IS REGULATED BY LOCAL ORDINANCES

ILLUMINATION LEVELS ARE THE RESULT OF CONDITIONS OR REQUESTS BY OTHERS. RED LEONARD ASSOCIATES IS NOT RESPONSIBLE FOR INCIDENTS CAUSED BY INSUFFICIENT LIGHTING AND DOES NOT RECOMMEND THESE LEVELS FOR SECURITY AND SAFETY REASONS

NOTES:
 - ALL AREA LIGHTS ON 20 FT. POLES MOUNTED ON 6 IN. CONCRETE BASES
 - ALL CONCRETE POLE BASES TO BE LOCATED 5 FT. BEHIND CURB
 - FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES

LUMINAIRE LOCATION SUMMARY		
LUM NO.	LABEL	MTG. HT.
1	A1	20.5
2	A1	20.5
3	A4	20.5
4	B1	20.5
5	B1	20.5
6	B1	20.5
7	B4	20.5
8	B4	20.5
9	B4	20.5
10	B4	20.5
11	B4	20.5
12	B4	20.5
13	C6	17.11
14	C6	17.11
15	C6	17.11
16	C6	19.32
17	C6	19.32
18	C6	19.32
19	C6	19.32
20	C6	19.32
21	C6	19.32
22	C6	19.32
23	C6	19.32
24	C6	21.53
25	C6	17.11
26	C6	17.11
27	C6	17.11
28	C6	17.11
29	C6	17.11
30	C6	21.53
31	C6	21.53
32	C6	21.53
33	C6	21.53
34	C6	21.53
35	C6	21.53
36	C6	21.53
37	C6	17.11
38	C6	17.11
39	C6	19.32

LUMINAIRE LOCATION SUMMARY		
LUM NO.	LABEL	MTG. HT.
40	C6	19.32
41	C6	21.53
42	C6	21.53
43	EB1	10.5
44	EB1	10.5
45	EB1	10.5
46	EB1	10.5
47	EB1	10.5
48	EB1	10.5
49	EB1	10.5
50	EB1	10.5
51	EB1	10.5
52	EB1	10.5
53	EB1	10.5
54	EB1	10.5
55	EB1	10.5
56	EB1	10.5
57	EB1	10.5
58	EB1	10.5
59	EB1	10.5
60	EF1	12
61	EF1	12
62	EF1	12
63	EF1	12
64	EF1	12
65	W3	8
66	W3	8
67	Z1	15
68	Z1	15
69	Z1	15
70	Z1	15
71	Z1	15
72	Z1	15
73	Z1	15
74	Z1	15
75	Z1	15
76	Z1	15
77	Z1	15
78	Z1	15
79	Z1	15

CALCULATION SUMMARY					
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
CANOPY	18.88	29	7	2.70	4.14
DELIVERY AREA	3.73	5.0	1.8	2.07	2.78
ENTRANCES & EXIT DRIVES	3.14	4.7	1.4	2.24	3.36
PARKING & INTERIOR DRIVE AISLES	3.03	13.4	1.0	3.03	13.40
PROPERTY LINES	0.42	2.0	0.0	N.A.	N.A.
UNDEFINED	0.39	8.6	0.0	N.A.	N.A.

LUMINAIRE SCHEDULE											
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	DIMMING FACTOR	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	CATALOG LOGIC
	2	A1	SINGLE	17468	1.030	0.730	B3-U0-G4	90.42	180.84	Lithonia Lighting	DSX0LED-P6-50K-70CRI-T3M-MVOLT-FAO-XX (SW. POS. 5)
	1	A4	SINGLE	15141	1.030	0.730	B2-U0-G3	90.42	90.42	Lithonia Lighting	DSX0LED-P6-50K-70CRI-T3M-MVOLT-FAO-HS-XX (SW. POS. 5)
	3	B1	SINGLE	17728	1.030	0.730	B3-U0-G5	90.42	271.26	Lithonia Lighting	DSX0LED-P6-50K-70CRI-T4M-MVOLT-FAO-XX (SW. POS. 5)
	6	B4	SINGLE	15251	1.030	0.730	B2-U0-G3	90.42	542.52	Lithonia Lighting	DSX0LED-P6-50K-70CRI-T4M-MVOLT-FAO-HS-XX (SW. POS. 5)
	30	C6	Single	6780	1.030	1.000	B2-U0-G1	40.4989	1214.967	Lithonia Lighting	RCNYLED-ALO1-50K-80CRI-SYMC-MVOLT-BZS-XX (SW. POS. 4)
	17	EB1	Single	1388	1.000	1.000	B1-U1-G0	19	323	WAC Lighting	WP-LED119-30
	5	EF1	SSL-4_1	992	1.000	1.000	B1-U1-G0	17.444	348.88	FC Lighting	CVLWET1.5-4-4K-80CRI-1040
	2	W3	Single	1994	1.010	1.000	B0-U0-G1	14.58	29.16	Lithonia Lighting	DSXW1 LED- P2-50K-70CRI-T3M-MVOLT-XXX-HS
	13	Z1	Single	3348	1.000	1.000	B1-U0-G1	25.4	330.2	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON	ISC-SA1B-740-U-SL4-WH

REV.	BY	DATE	DESCRIPTION

DISCLAIMER
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SCALE:
 1" = 30'
 LAYOUT BY:
 LMP
 DATE:
 04/17/25

PROJECT NAME:
 MOYOCK, NC
 DRAWING NUMBER:
 RL-10215-S1

QTY	LABEL	DESCRIPTION
2	A1	DSXOLED-P6-50K-70CRI-T3M-MVOLT-FAO-XX (SW. POS. 5)
1	A4	DSXOLED-P6-50K-70CRI-T3M-MVOLT-FAO-HS-XX (SW. POS. 5)
3	B1	DSXOLED-P6-50K-70CRI-T4M-MVOLT-FAO-XX (SW. POS. 5)
6	B4	DSXOLED-P6-50K-70CRI-T4M-MVOLT-FAO-HS-XX (SW. POS. 5)

ADDITIONAL FIXTURE INFO

D-Series Size 0 LED Area Luminaire

Specifications

EPA: 0.44 ft² (0.041 ft²)
 Length: 14.00" (355 mm)
 Width: 1.60" (40 mm)
 Height H1: 2.26" (57 mm)
 Height H2: 7.40" (188 mm)
 Weight: 23 lbs (10 kg)

Ordering Information

EXAMPLE: DSXO LED P6 40K 70CRI T3M MVOLT SPA NLJARD PIRHN DBBXD

Label	LEDs	Color Temperature	Color Rendering Index	Beam Spread	Beam Angle	Mounting
DSXO LED	Forward optics	4000K (5000K)	90CRI	120°	120°	Surface Mount
DSXO LED	Reverse optics	4000K (5000K)	90CRI	120°	120°	Surface Mount

Accessories

- External Glare Shield (EGSR)
- House Side Shield (HSS)

QTY	LABEL	DESCRIPTION
30	C6	RCNYLED-AL01-50K-80CRI-SYMC-MVOLT-BZS-XX (SW. POS. 4)

ADDITIONAL FIXTURE INFO

RCNY LED Recessed LED Canopy/Ceiling Luminaire

Specifications

Width: 11.5"
 Height: 5.5"
 Length: 11.5"
 Weight: 11.5"

Ordering Information

EXAMPLE: RCNY LED AL02 50K 70CRI SYMC MVOLT BZS DWHXD

Label	Color Temperature	CR	Beam Spread
RCNY LED	5000K	90CRI	120°
RCNY LED	4000K	90CRI	120°
RCNY LED	3000K	90CRI	120°

Accessories

- External Glare Shield (EGSR)
- House Side Shield (HSS)

QTY	LABEL	DESCRIPTION
17	EB1	WP-LED119-30

ADDITIONAL FIXTURE INFO

FIN - model: WP-LED1 Endurance Wallpack

Specifications

Power: 30W
 Beam Spread: 120°
 Height: 10.5"
 Width: 4.5"
 Depth: 4.5"

Ordering Information

EXAMPLE: WP-LED119-30

Label	Power	Comparable	Color Temp	Delivered Lumens	CR	Finish
WP-LED119	30W	3000K	3000K	1300	90	Architectural Bronze
WP-LED127	30W	3000K	3000K	1300	90	Architectural White
WP-LED115	30W	3000K	3000K	1300	90	Architectural White

Accessories

- External Glare Shield (EGSR)
- House Side Shield (HSS)

QTY	LABEL	DESCRIPTION
5	EF1	CVLWET1.5-4-K-80CRI-1040

ADDITIONAL FIXTURE INFO

COVILINE WET 1.5

Specifications

Beam Spread: 120°
 Length: 1040mm
 Height: 40mm
 Weight: 1.5kg

Ordering Information

EXAMPLE: CVLWET1.5-4-K-80CRI-1040

Label	Beam Spread	Length	Height	Weight
COVILINE WET 1.5	120°	1040mm	40mm	1.5kg

Accessories

- External Glare Shield (EGSR)
- House Side Shield (HSS)

QTY	LABEL	DESCRIPTION
5	EF1	CVLWET1.5-4-K-80CRI-1040

ADDITIONAL FIXTURE INFO

COVILINE WET 1.5

Specifications

Beam Spread: 120°
 Length: 1040mm
 Height: 40mm
 Weight: 1.5kg

Ordering Information

EXAMPLE: CVLWET1.5-4-K-80CRI-1040

Label	Beam Spread	Length	Height	Weight
COVILINE WET 1.5	120°	1040mm	40mm	1.5kg

Accessories

- External Glare Shield (EGSR)
- House Side Shield (HSS)

Ordering Information

Accessories

- External Glare Shield (EGSR)
- House Side Shield (HSS)

Shield Accessories

- External Glare Shield (EGSR)
- House Side Shield (HSS)

Drilling

HANDHOLE ORIENTATION

Template H1
 Template H2

Tonn Mounting Splitter

Mounting System	Splitter	2.0-1.00	2.0-1.00	2.0-1.00	2.0-1.00
DSXO with SH	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16

DSXO Area Luminaire - EPA

Mounting System	Splitter	2.0-1.00	2.0-1.00	2.0-1.00	2.0-1.00
DSXO with SH	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16

Photometric Diagrams

Full photometric data report available within 2 weeks from request. Contact Sales Tech Support.

SYMMETRIC CLEAR LENS

ASYMMETRIC CLEAR LENS

Performance Data

Mounting System	Splitter	2.0-1.00	2.0-1.00	2.0-1.00	2.0-1.00
DSXO with SH	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16

Symmetric Foot Cans

Mounting System	Splitter	2.0-1.00	2.0-1.00	2.0-1.00	2.0-1.00
DSXO with SH	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16

Asymmetric Clear Lens

Mounting System	Splitter	2.0-1.00	2.0-1.00	2.0-1.00	2.0-1.00
DSXO with SH	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16
DSXO with SH, SHN	DSXO	1.16	1.16	1.16	1.16

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PROJECT NAME: MOYOCK, NC
 DRAWING NUMBER: RL-10215-S1

QTY	LABEL	DESCRIPTION
2	W3	DSXW1 LED- P2-50K-70CRI-T3M-MVOLT-XXX-HS



ADDITIONAL FIXTURE INFO

D-Series Size 1 LED Wall Luminaire

BAE BAA BABA

Back Box (BBW, E20WC)

Width: 13.24" (337 mm) Weight: 5 lbs (2.3 kg)

Depth: 4" (102 mm) Weight: 10 lbs (4.5 kg)

Height: 6.38" (162 mm)

Specifications Luminaire

Width: 13.24" (337 mm) Weight: 12 lbs (5.4 kg)

Depth: 10" (254 mm) Weight: 10 lbs (4.5 kg)

Height: 6.38" (162 mm)

Ordering Information

EXAMPLE: DSXW1 LED P2 40K 70CRI T3M MVOLT SRM DBDXTD

Series	Luminaire Package	CCT	CRI	Distribution	Finish	Mounting	Control Options
DSXW1 LED	P1 2000 Lumens	27K	70CR	T3M	SRM	SRM	PHOTOCENT, DALI, DALI-2
	P2 2000 Lumens	30K	80CR	T3M	SRM	SRM	PHOTOCENT, DALI, DALI-2
	P3 3000 Lumens	30K	80CR	T3M	SRM	SRM	PHOTOCENT, DALI, DALI-2
	P4 4000 Lumens	30K	80CR	T3M	SRM	SRM	PHOTOCENT, DALI, DALI-2

Other Options	Finish	Finish Name
Shipped as full	DDDD	Dull bronze
SP	DDSD	Dull silver
DF	DDSD	Dull silver
HS	DDSD	Dull silver
MS	DDSD	Dull silver
DFC	DDSD	Dull silver

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Performance Data

Package	Dist. Type	System Metric	20, 27K	30, 35K	40, 50K	50, 55K	56, 65K
P1	T3M	12	1,840	140	1,965	159	1,965
	T3M	12	1,780	144	1,900	154	1,900
	14M	12	1,820	147	1,940	157	1,940
	14M	12	1,816	147	1,946	157	1,947

QTY	LABEL	DESCRIPTION
13	Z1	ISC-SA1B-740-U-SL4-WH



Project	Catalog #	Type
Prepared by	Notes	Date

McGraw-Edison Impact Elite LED

Wall Mount Luminaire

Quic

- 15
- Lux
- 20
- Eff

Product Certifications: ETL, IP66, DALI, IES, VESA

Connected Systems: WaveLux, Enlighted

Dimensional Details

Cylinder: 1" (25.4mm) x 1" (25.4mm)

Quarter Sphere: 1" (25.4mm) x 1" (25.4mm)

Hook-n-Lock: 1" (25.4mm) x 1" (25.4mm)

Trapezoid: 1" (25.4mm) x 1" (25.4mm)

Wedge: 1" (25.4mm) x 1" (25.4mm)

Options (Add as Suffix)

Control and System Options (Add as Suffix)

Performance (Order Separately)

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McGraw-Edison Impact Elite LED

Product Family	Light Engine	Color	Voltage	Distribution	Finish
Impact Elite LED Small Cylinder	SA-1 Series	A-3000K	120-277V	SA-1 Series	AP-001
Impact Elite LED Small Trapezoid	SA-1 Series	A-3000K	120-277V	SA-1 Series	AP-001
Impact Elite LED Small Quarter Sphere	SA-1 Series	A-3000K	120-277V	SA-1 Series	AP-001

Thruway Back Box

Cylinder: 1" (25.4mm) x 1" (25.4mm)

Quarter Sphere: 1" (25.4mm) x 1" (25.4mm)

Trapezoid: 1" (25.4mm) x 1" (25.4mm)

Wedge: 1" (25.4mm) x 1" (25.4mm)

Product Specifications

Construction: Heavy wall, die-cast aluminum housing and stainless steel heat sink. High efficiency injection-molded ALED optics. 18 optical distributions. IBA Certified (3000K CCT and warmer only).

Electrical: Standard with 0-10V dimming. Standalone with Cooper Lighting Solutions proprietary control module designed to withstand resistant accents. Suitable for operation in 40°C to 60°C ambient environments. Optional 50°C high ambient (HA) configuration. Suitable for operation in 40°C to 60°C ambient environments. Optional 50°C high ambient (HA) configuration.

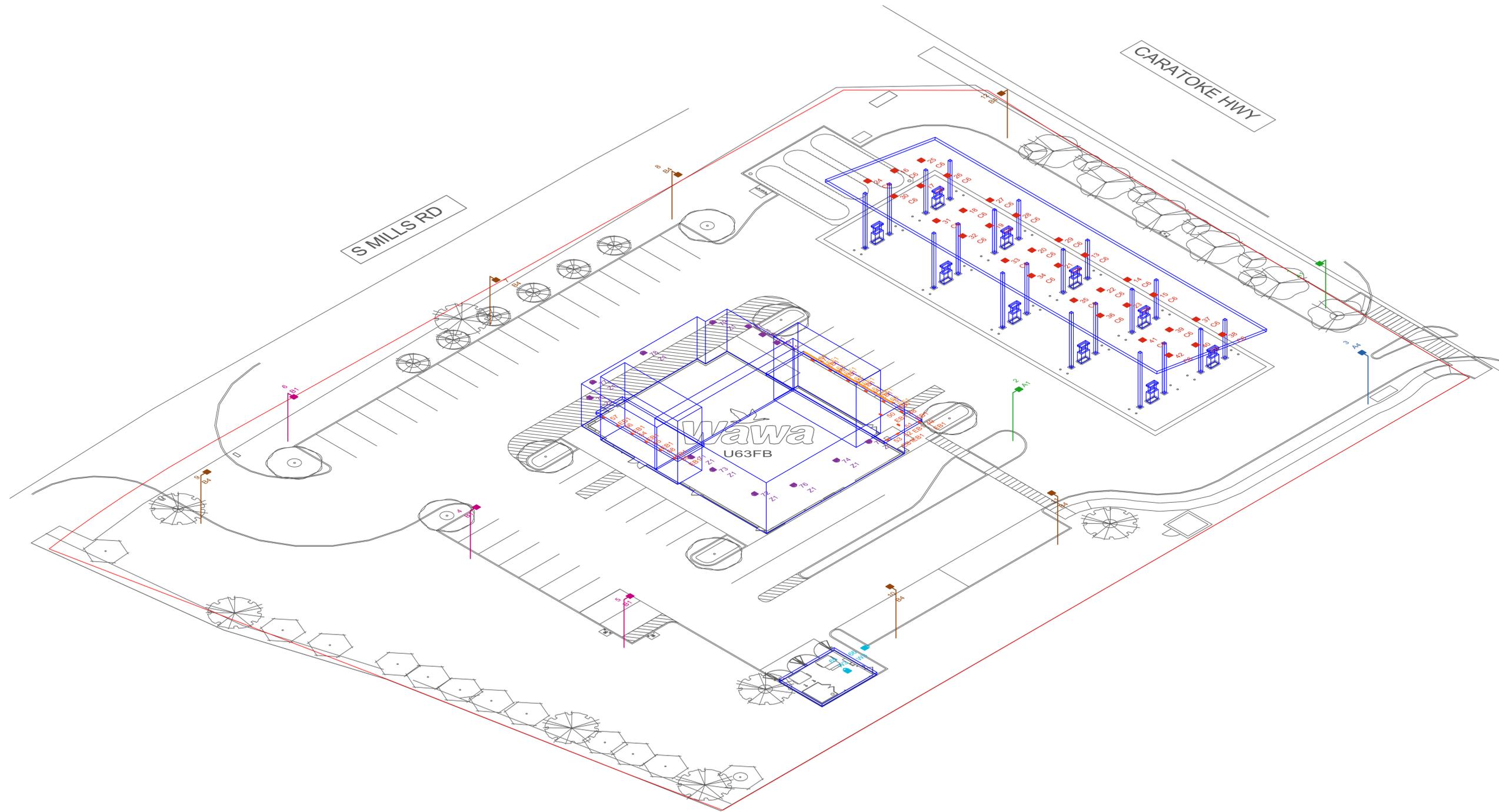
Mounting: Utilize "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting surface. Two black oxide coated Allen set screws concealed but accessible from bottom.

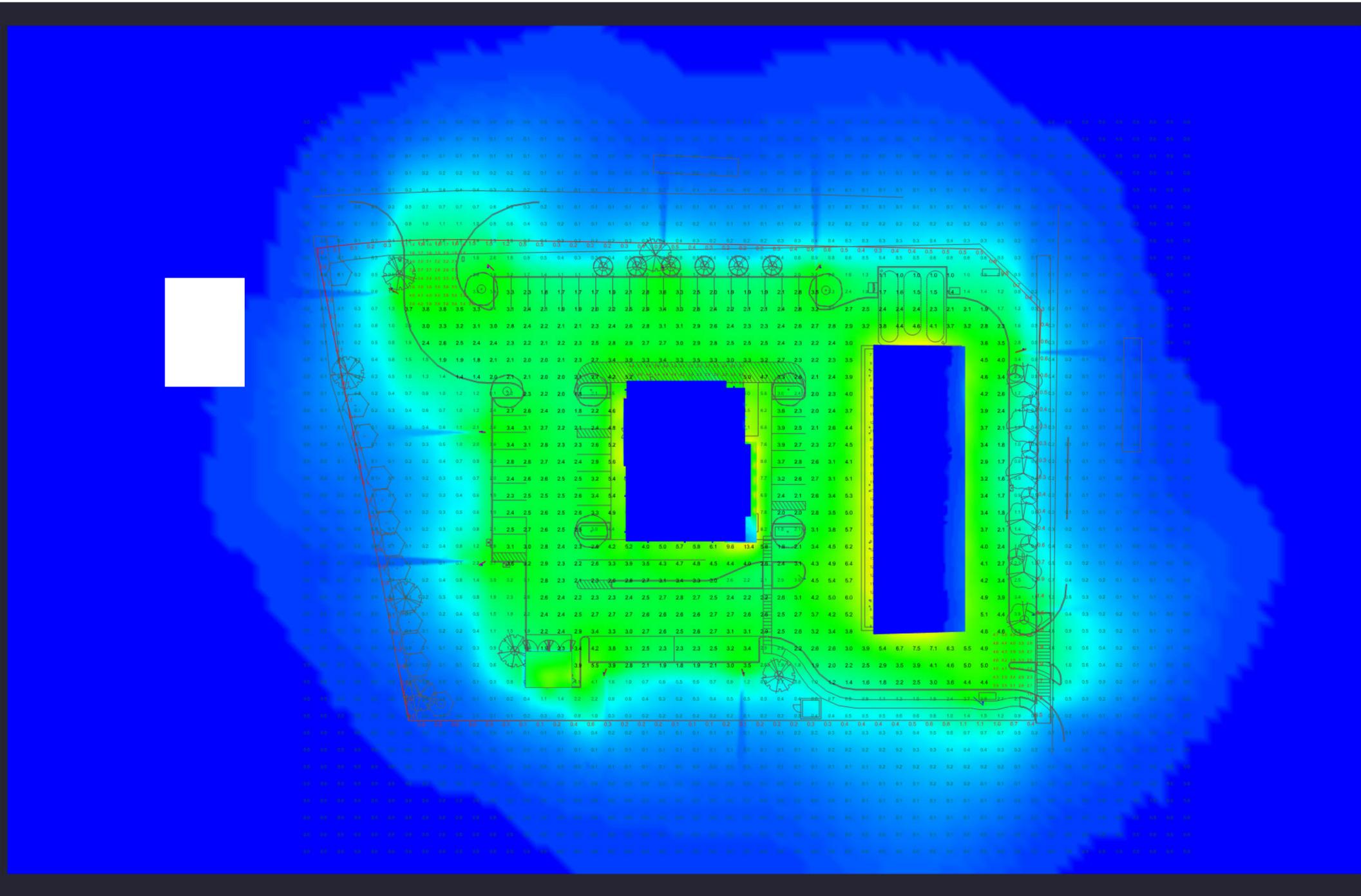
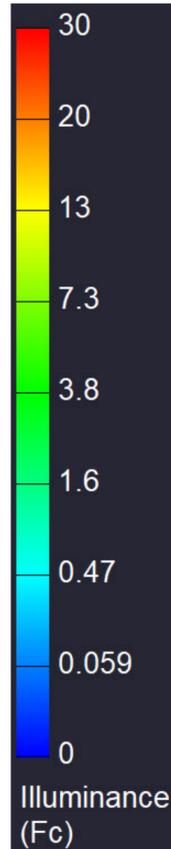
Finish: Super durable TSC polyester powder coat paint, 2.5 mil nominal thickness. RGB and custom color matches available. Coastal Construction (CC) option available.

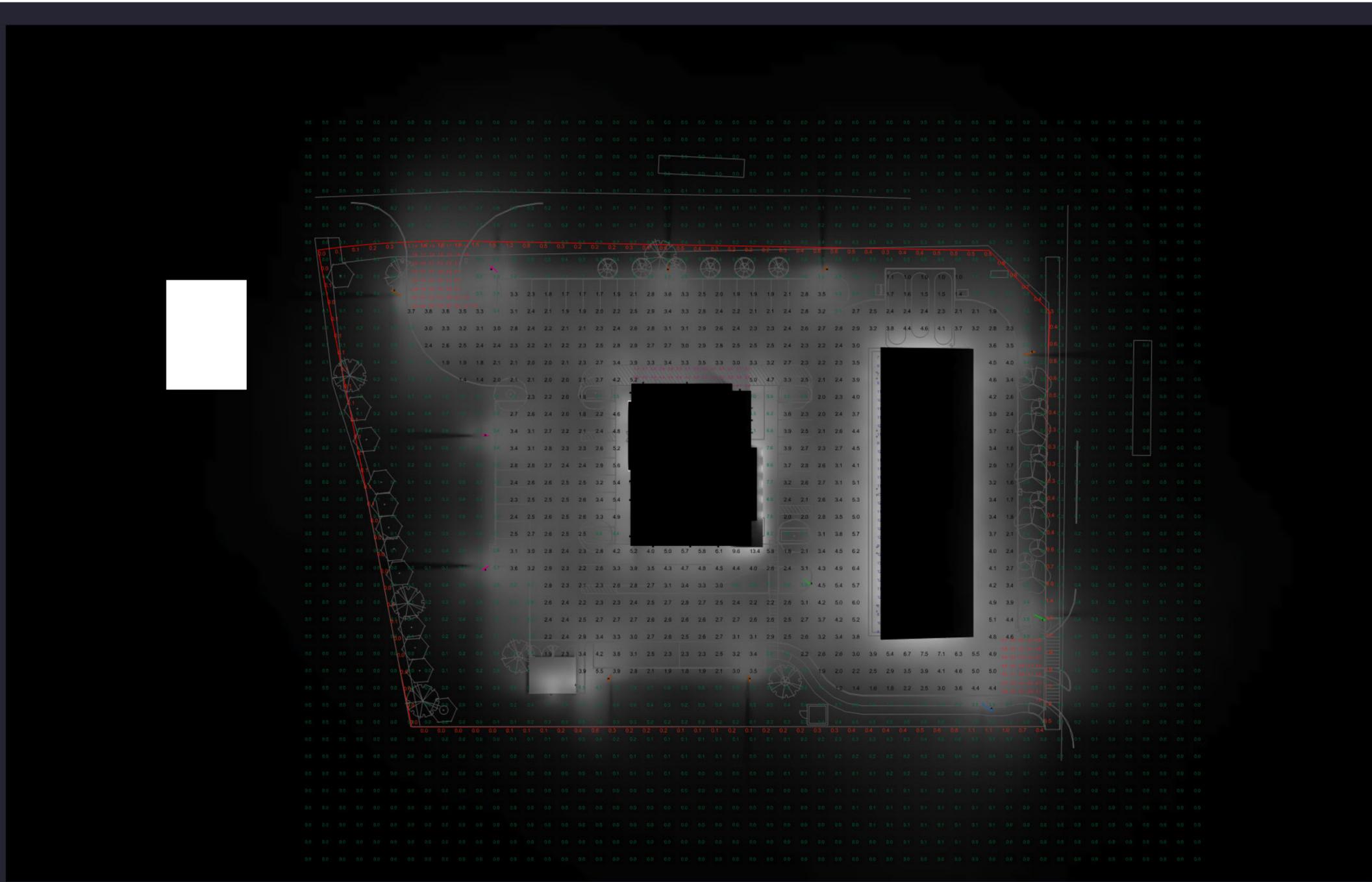
Warranty: Five year limited warranty, consult website for details. www.mcgraw-edison.com

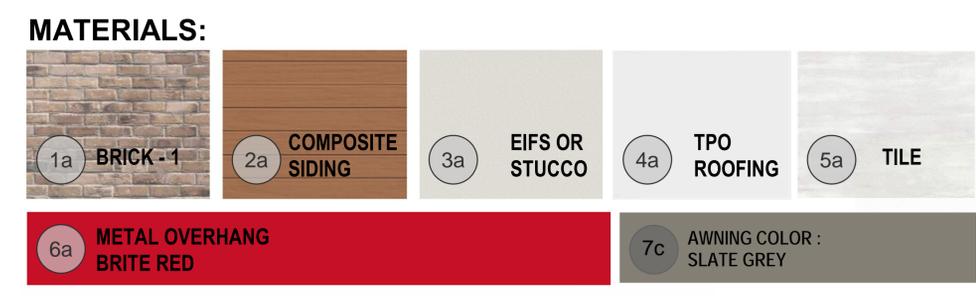
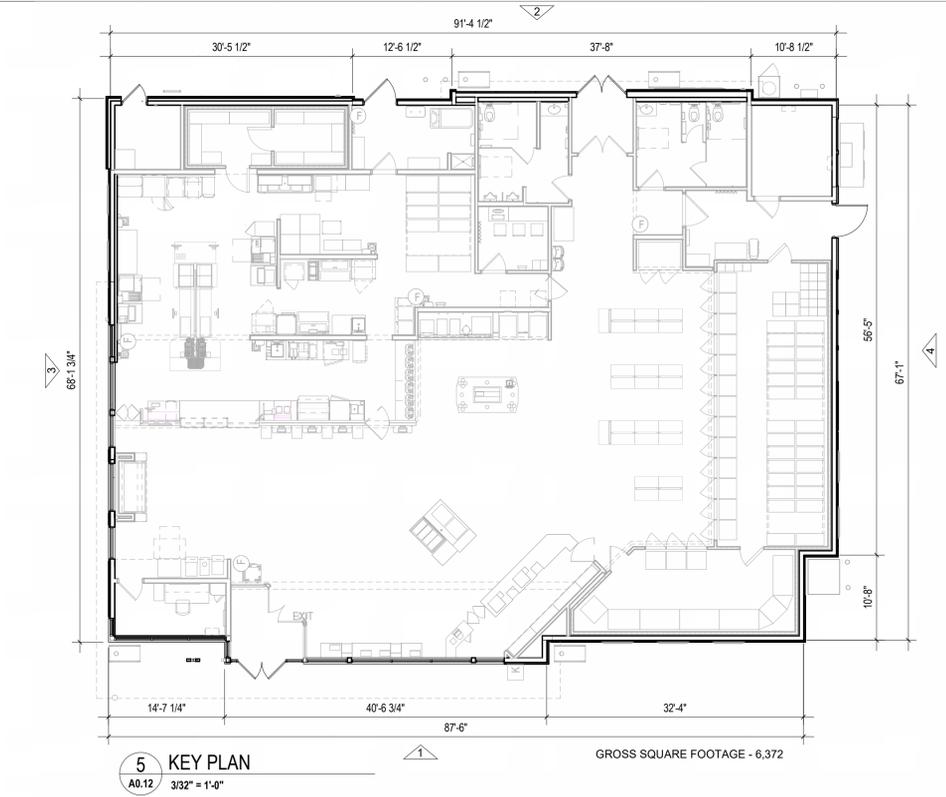
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AREA	
CANOPY	
WALL MOUNTED	
COVELINE	
WALL MOUNTED	
WALL MOUNTED	



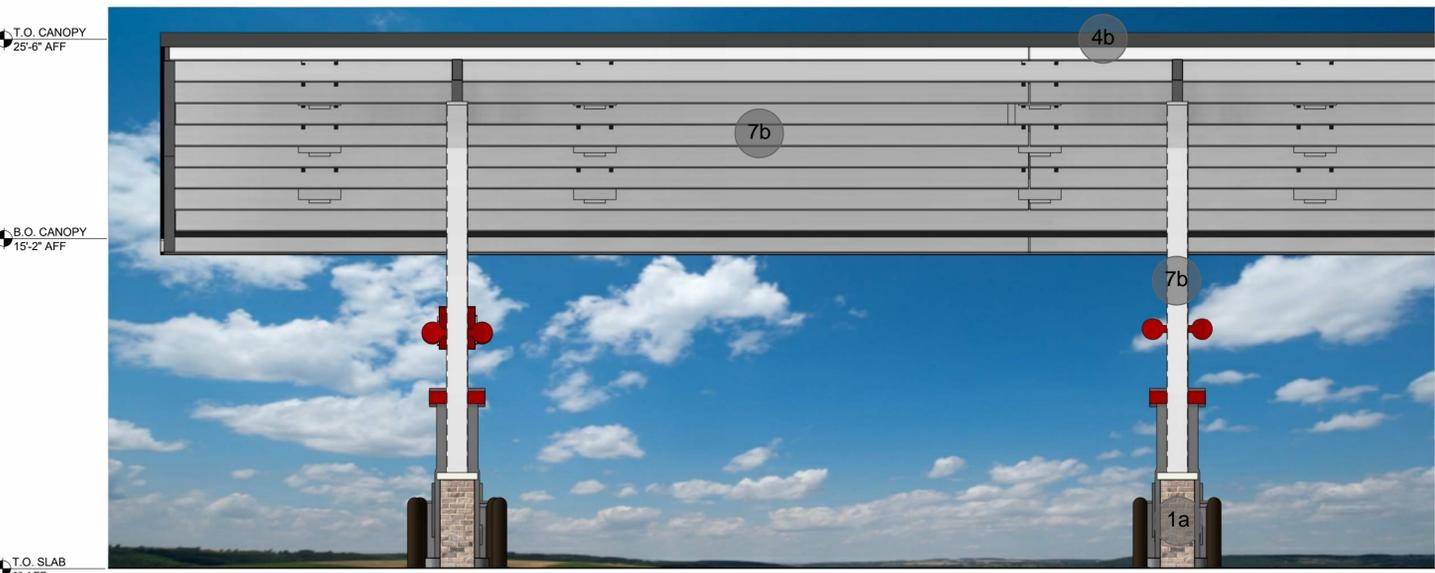








③ FUEL CANOPY ELEVATION
1/4" = 1'-0"



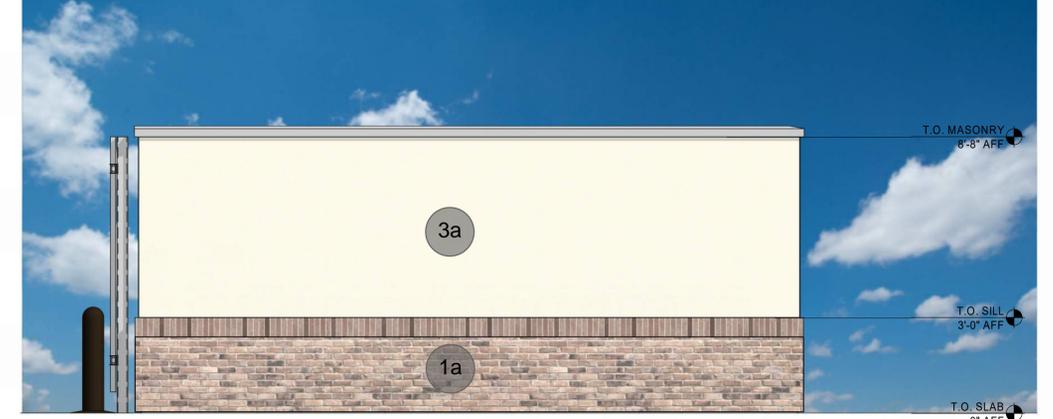
② FUEL CANOPY ELEVATION - LONG
1/4" = 1'-0"



① FUEL CANOPY PERSPECTIVE

MATERIALS:

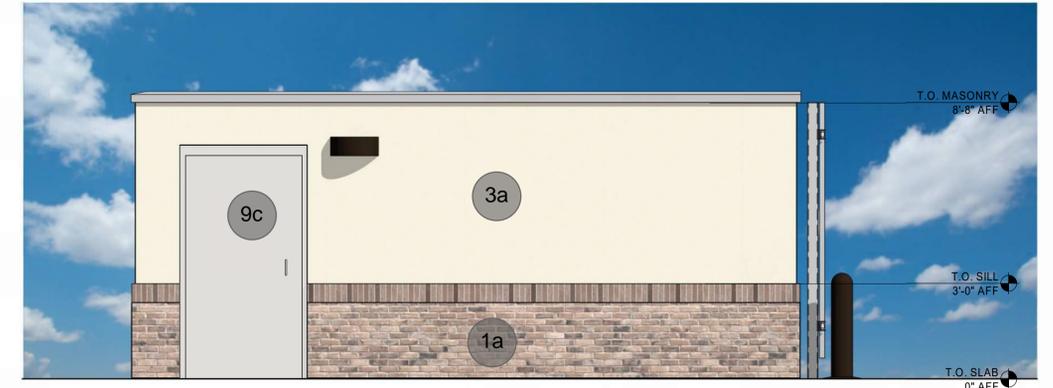
 1a BRICK-1	 1a BRICK-1
 7b METAL: WHITE	 3a EIFS OR STUCCO
 4b ROOF: SLATE GREY	 9c PAINT: BRIGHT WHITE



⑦ TRASH COMPOUND RIGHT SIDE ELEVATION
3/8" = 1'-0"

MATERIAL CALS:

EIFS/STUCCO - 118SF	65.2%
BRICK (1) - 63 SF	34.8%
TOTAL - 181 SF	100.0%



⑥ TRASH COMPOUND LEFT SIDE ELEVATION
3/8" = 1'-0"

MATERIAL CALS:

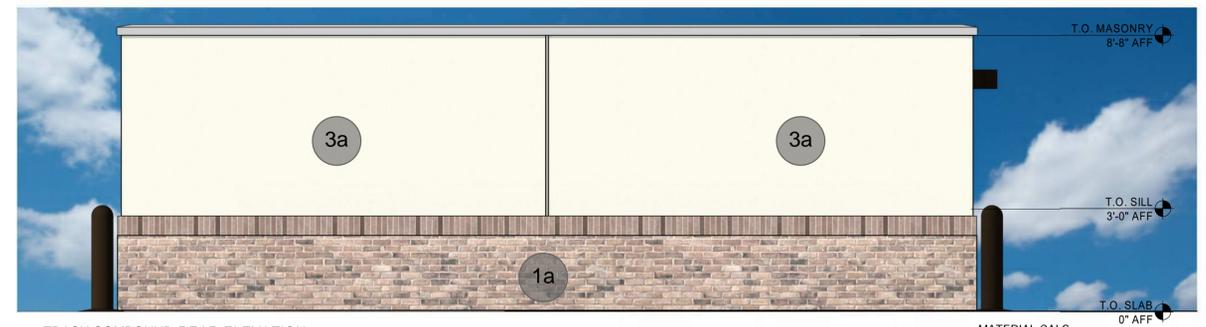
EIFS/STUCCO - 100SF	55.4%
BRICK (1) - 51 SF	28.1%
MTL DOOR - 30SF	16.5%
TOTAL - 181 SF	100.0%



⑤ TRASH COMPOUND FRONT ELEVATION
3/8" = 1'-0"

MATERIAL CALS:

EIFS/STUCCO - 6 SF	2.9%
BRICK (1) - 4 SF	1.9%
TRASH DOOR - 192 SF	95.2%
TOTAL - 202 SF	100.0%



④ TRASH COMPOUND REAR ELEVATION
3/8" = 1'-0"

MATERIAL CALS:

EIFS/STUCCO - 151 SF	65.1%
BRICK (1) - 81 SF	34.9%
TOTAL - 232 SF	100.0%