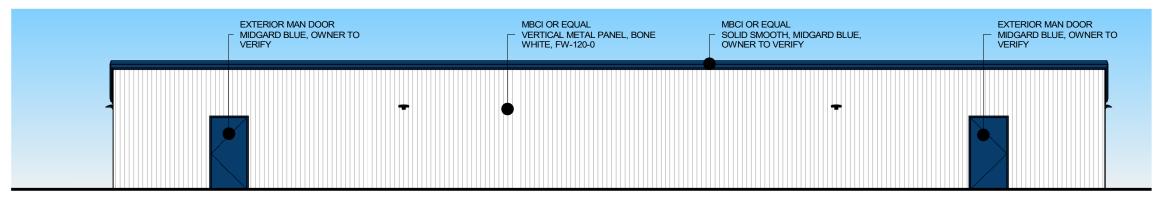


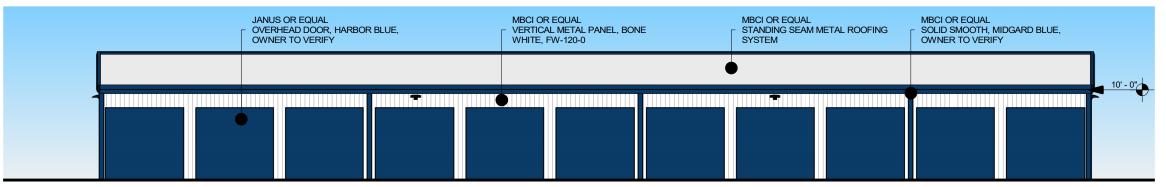
EXTERIOR ELEVATION - NORTH

3/32" = 1'-0"



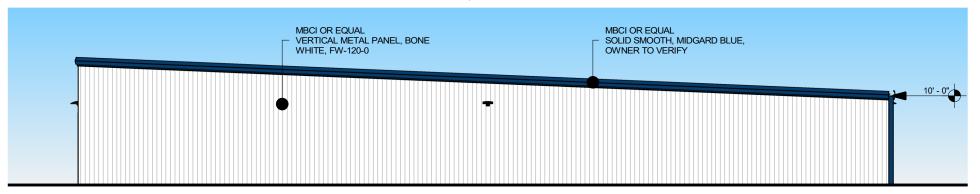
EXTERIOR ELEVATION - WEST

3/32" = 1'-0"



EXTERIOR ELEVATION - EAST

3/32" = 1'-0"



EXTERIOR ELEVATION - SOUTH

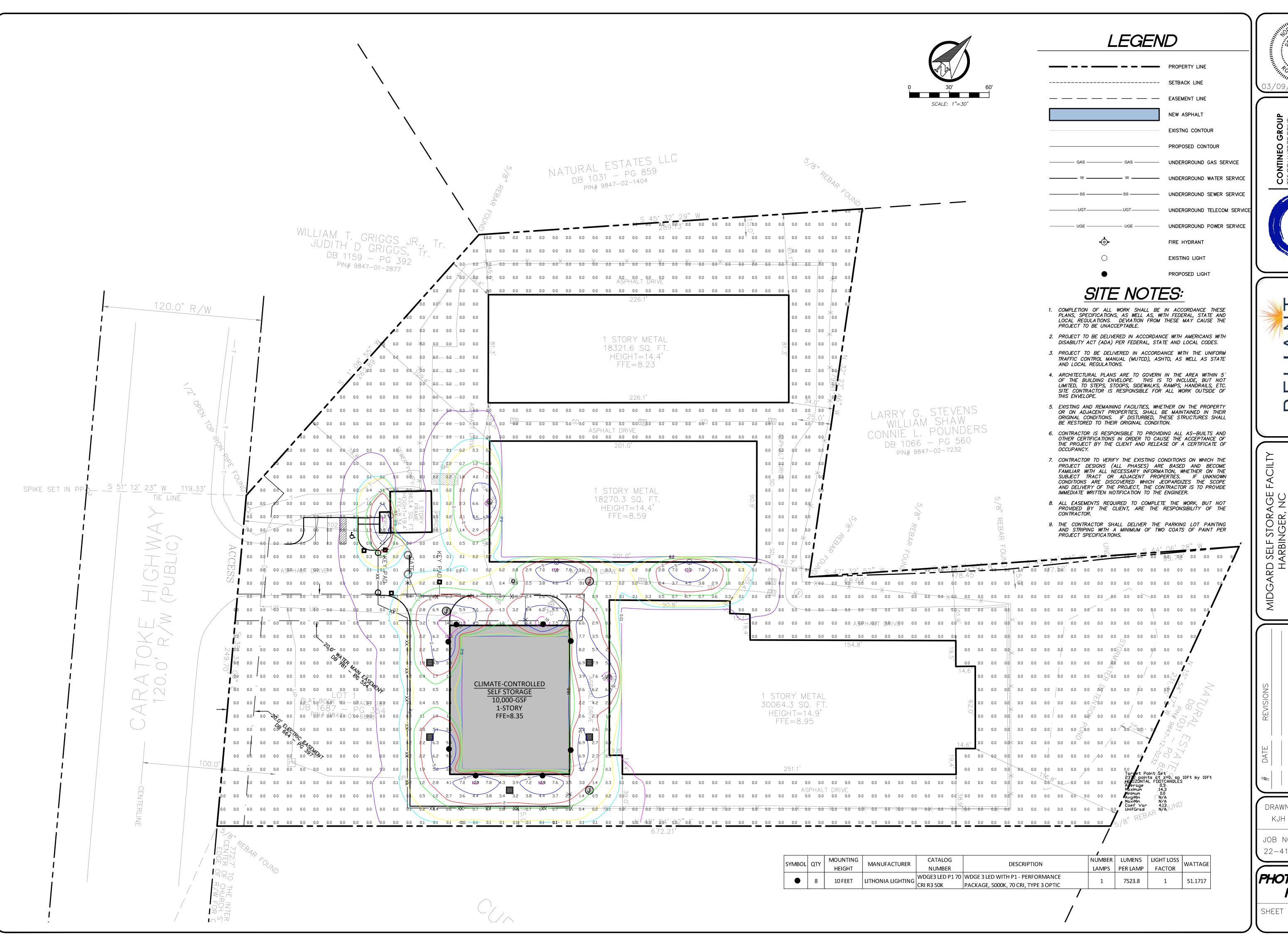
3/32" = 1'-0"



8659 CARATOKE HIGHWAY HARBINGER, NC 27964









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DECATUR, GA 30030
770.335.7721





Real Estate Management, LL Roswell, GA 30075 CONTACT: CAIT LOWE 770.609.8276

CONCEPT

CURRITUCK COUNTY

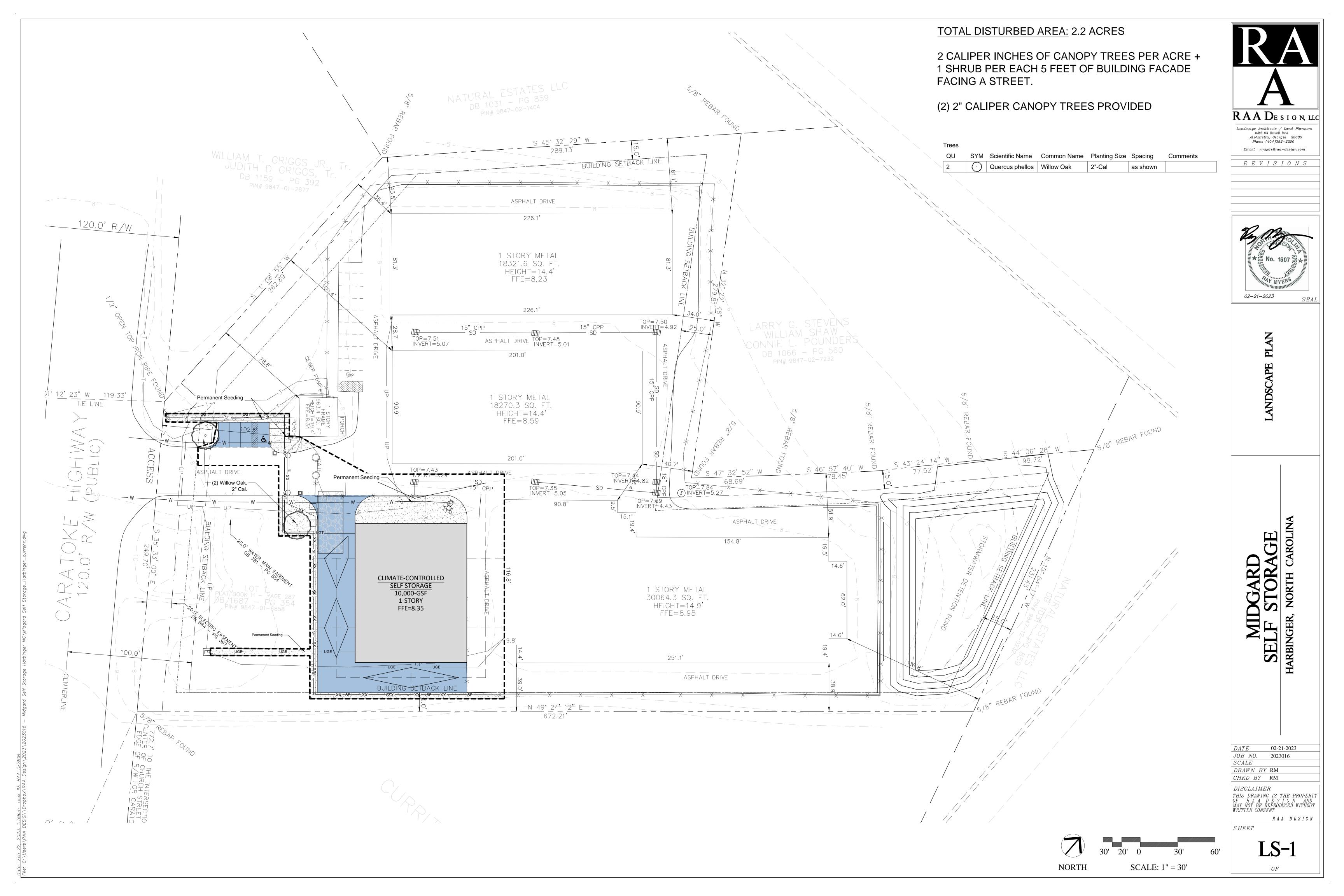
559 CARATOKE HIGHWAY,

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PHOTOMETRIC PLAN

C20



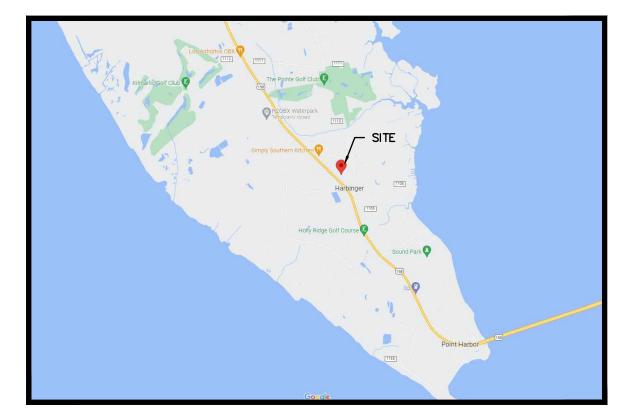
MIDGARD HARBINGER, NC -SELF STORAGE EXPANSION

> 8659 CARATOKE HIGHWAY HARBINGER, NC 27964

> > PIN #: 9847-01-6856 PID #: 0131000092G0000

D.B. 1687, PG 354, CURRITUCK COUNTY

CURRITUCK COUNTY PERMIT#:



VICINITY MAP

SCOPE OF WORK

THE PROPOSED PROJECT INVOLVES THE EXPANSION OF AN EXISTING SELF-STORAGE FACILITY IN CURRITUCK COUNTY. A NEW 1-STORY CLIMATE-CONTROLLED STORAGE FACILITY SHALL BE CONSTRUCTED. ADDITIONAL PAVEMENT WILL BE INSTALLED. ALONG WITH THE REQUIRED POWER & TELECOM EXTENSIONS TO THE NEW STRUCTURE.

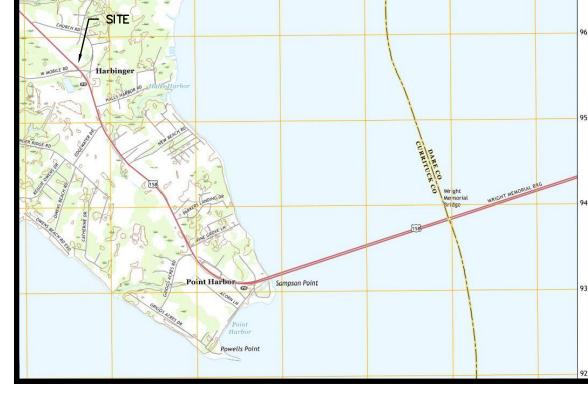
GENERAL NOTES:

CONTRACTOR'S RESPONSIBILITY TO INCLUDE. BUT NOT LIMITED TO:

- 1. CAUSE THE WORK TO BE COMPLETED PER FEDERAL, STATE AND LOCAL CODES DURING ALL PHASES OF THE PROJECT.
- 2. VERIFY THE EXISTING CONDITIONS ON WHICH THE PROJECT DESIGNS (ALL PHASES) ARE BASED AND BECOME FAMILIAR WITH ALL NECESSARY INFORMATION, WHETHER ON THE SUBJECT TRACT OR ADJACENT PROPERTIES. IF UNKNOWN CONDITIONS ARE DISCOVERED WHICH JEOPARDIZES THE SCOPE AND DELIVERY OF THE PROJECT, THE CONTRACTOR IS TO PROVIDE IMMEDIATE WRITTEN NOTIFICATION TO THE
- 3. COORDINATE WITH UTILITY PROVIDERS TO CONFIRM THE LOCATION OF EXISTING AND PROPOSED SERVICES WILL BE ADEQUATE FOR THE DEVELOPMENT. THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE ACCURACY O'F THE EXISTING UTILITY LOCATIONS AND PROPOSED LOCATIONS ARE APPROXIMATE IN NATURE.
- 4. CONSTRUCTION LIMITS SHALL BE PROPERLY MARKED AND BARRIERS CREATED AS NECESSARY TO PROTECT CONSTRUCTION PERSONNEL AS WELL AS THE PUBLIC, OSHA AND ALL OTHER GOVERNING STANDARDS.
- 5. PROVISION OF ALL NECESSARY WORK IN ORDER TO CAUSE THE PROJECT TO BE COMPLETED WHETHER OR NOT THE WORK IS SPECIFICALLY DESCRIBED WITHIN THE PROJECT DESIGNS OR REQUIRED BY REGULATION IN THE COURSE OF WORK.
- 6. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES DURING ALL PHASES OF THE PROJECT.
- 7. DEMOLITION RESPONSIBILITIES: A. CONSTRUCTION DEBRIS AND REFUSE RESULTING FROM DEMOLITION SHALL BE REMOVED FROM THE CONSTRUCTION LOCATION UNDER MEANS THAT ADHERE TO FEDERAL, STATE AND LOCAL REGULATIONS. UNDER NO CIRCUMSTANCES SHALL REFUSE MANAGEMENT COMPROMISE THE DELIVERY SCHEDULE OR QUALITY OF THE PROJECT. B. FEDERAL, STATE AND LOCAL REGULATIONS SHALL BE ADHERED TO
- AT ALL TIMES DURING DEMOLITION. C. PRIOR TO DEMOLITION COMMENCEMENT, CONTACT LOCAL "CALL DIG"

AT THE END OF EACH DAY.

- D. PROPER SHORING AND BRACING SYSTEMS SHALL BE UTILIZED FOR ALL EXACTIONS AT ALL TIMES. COMPLETELY FILL ALL EXCAVATIONS
- E. BURNING OF MATERIALS IS PROHIBITED EXCEPT BY PROPER PERMIT FROM GOVERNING AGENCY. F. EXISTING AND REMAINING FACILITIES. WHETHER ON THE PROPERTY OR ON ADJACENT PROPERTIES, SHALL BE MAINTAINED IN THEIR ORIGINAL CONDITIONS. IF DISTURBED, THESE STRUCTURES SHALL BE RESTORED
- TO THEIR ORIGINAL CONDITION. G. EROSION CONTROL MEASURES DURING DEMOLITION PHASE SHALL BE MAINTAINED AT ALL TIMES DURING ALL PHASES OF THE PROJECT, PER FEDERAL, STATE AND LOCAL CODES. NO EARTHMOVING OR DISTURBANCE SHALL BE CAUSED TO HAPPEN UNTIL ALL APPROPRIATE MEASURES HAVE BEEN PUT INTO PLACE.



USGS QUAD MAP

N.T.S.



AERIAL MAP

SHEET INDEX

COVER SHEET

CITE I	$\gamma_{\Lambda} T_{\Lambda}$
SITE D	JAIA
LOCAL JURISDICTION	CURRITUCK COUNTY
PRIMARY PARCEL ID	9847-01-6858
ZONING DESIGNATION	GB (GENERAL BUSINESS)
OVERLAY DISTRICT	N/A
TOTAL PROPERTY ACREAGE	±5.4 ACRES
TOTAL DISTURBED ACREAGE	±0.8 ACRES
PROPOSED EXPANSION	1-STORY CLIMATE CONTROLLED STORAGE (±10,000-GSF)
MIN. LOT SIZE	40,000-SF
MIN. LOT WIDTH	125 FEET
MAXIMUM IMPERVIOUS %	65%
EXISTING IMPERVIOUS %	53%
PROPOSED IMPERVIOUS %	61%
FRONT BUILDING SETBACK	30'
SIDE BUILDING SETBACK	15'
REAR BUILDING SETBACK	25'
EXISTING NON-CONFORMING SF	67,618-SF
MAX EXPANSION ALLOWED SF	33,809-SF
PROPOSED EXPANSION SF	10,000-SF
MAX. LOT COVERAGE	65%
PROPOSED LOT COVERAGE	61%

PARKING SUMMARY				
	UNIT	REQUIRED	PROVIDED	
EXISTING STORAG	E 377	4	10	
STORAGE UNITS	200	2	6	
TOTAL	577	6	16	
REQUIREMENTS BASED ON:				
TOO STORAGE UNITS				

0.00	337217 311221
C200	SITE & UTILITY PLAN
C300	GRADING & DRAINAGE PLAN
C500 C501 C502	EROSION & SEDIMENT CONTROL NOTES DEMO + INITIAL PHASE E+S CONTROL FINAL PHASE E+S CONTROL PLAN
C601 C602 C603 C604	E+S CONTROL BEST MANAGEMENT PRACTICES
C701 C702	STANDARD DETAILS STANDARD DETAILS
LS-1 S-1	LANDSCAPE PLAN ALTA/NSPS LAND TITLE SURVEY

GPS LOCATION (DECIMAL DEGREES) LATITUDE: N 36.103408° LONGITUDE: W 75.815997°



FEMA MAP

THE PROPERTY BEING DEVELOPED IS LOCATED WITHIN ZONE 'X' (AN AREA OF MINIMAL FLOOD HAZARD) AS CAN BE ABOVE ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY MAP 3720984600K, CURRITUCK COUNTY, 370078.

PROJECT DEVELOPER

RELIANT REAL ESTATE MANAGEMENT, LLC

1146 CANTON STREET ROSWELL, GA 30075 **CONTACT: MATT GARCIA** PHONE: (770) 609-8276 EMAIL: MGARCIA@RELIANT-MGMT.COM

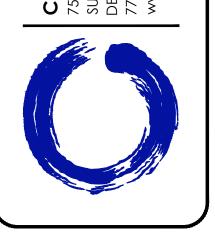
PROJECT CIVIL ENGINEER

CONTINEO GROUP, LLC 755 COMMERCE DRIVE SUITE 800 ATLANTA, GA 30030 CONTACT: RON CRUMP, P.E. PHONE: (404) 556-7721 EMAIL: RONC@THECONTINEOGROUP.COM

PROJECT LANDSCAPE ARCHITECT

RAA DESIGN, LLC 11395 OLD ROSWELL ROAD ALPHARETTA, GA 30009 CONTACT: RAY MYERS PHONE: (770) 846-9745 EMAIL: RMYERS@RAA-DESIGN.COM





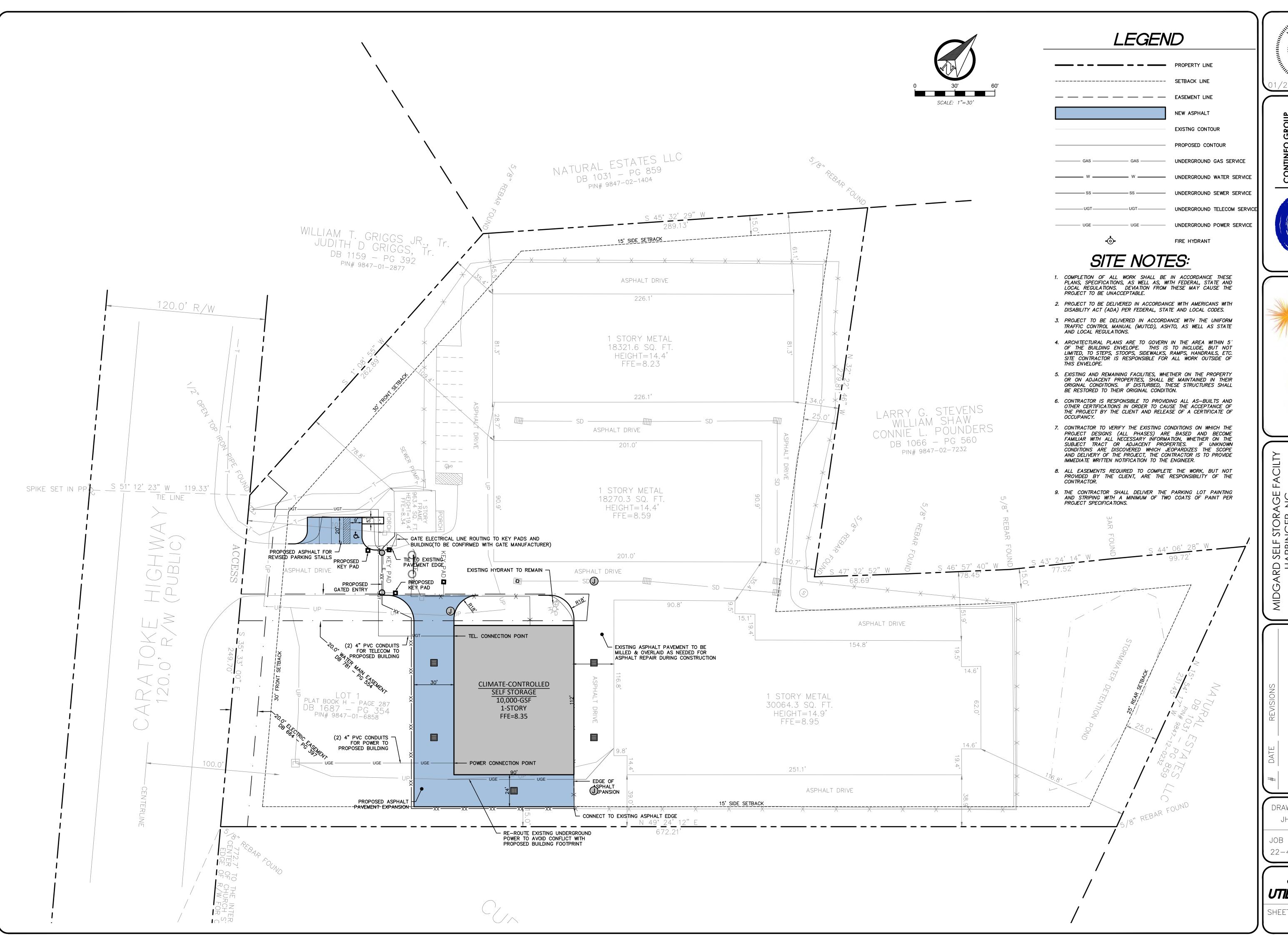


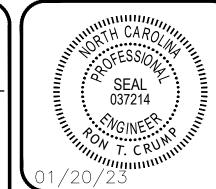
MIDGARD SELF STORAGE FACILTY HARBINGER, NC
ISSUED FOR: CONCEPT
JURSIDICTION: CURRITUCK COUNTY
VAMUCIU DICTABATORIONIO SERVICIONIO DE CONTRACTORIO DE CONTRAC

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www.tcg.engineer





HARBINGER, NC

FOR: CONCEPT

TION: CURRITUCK COUNTY

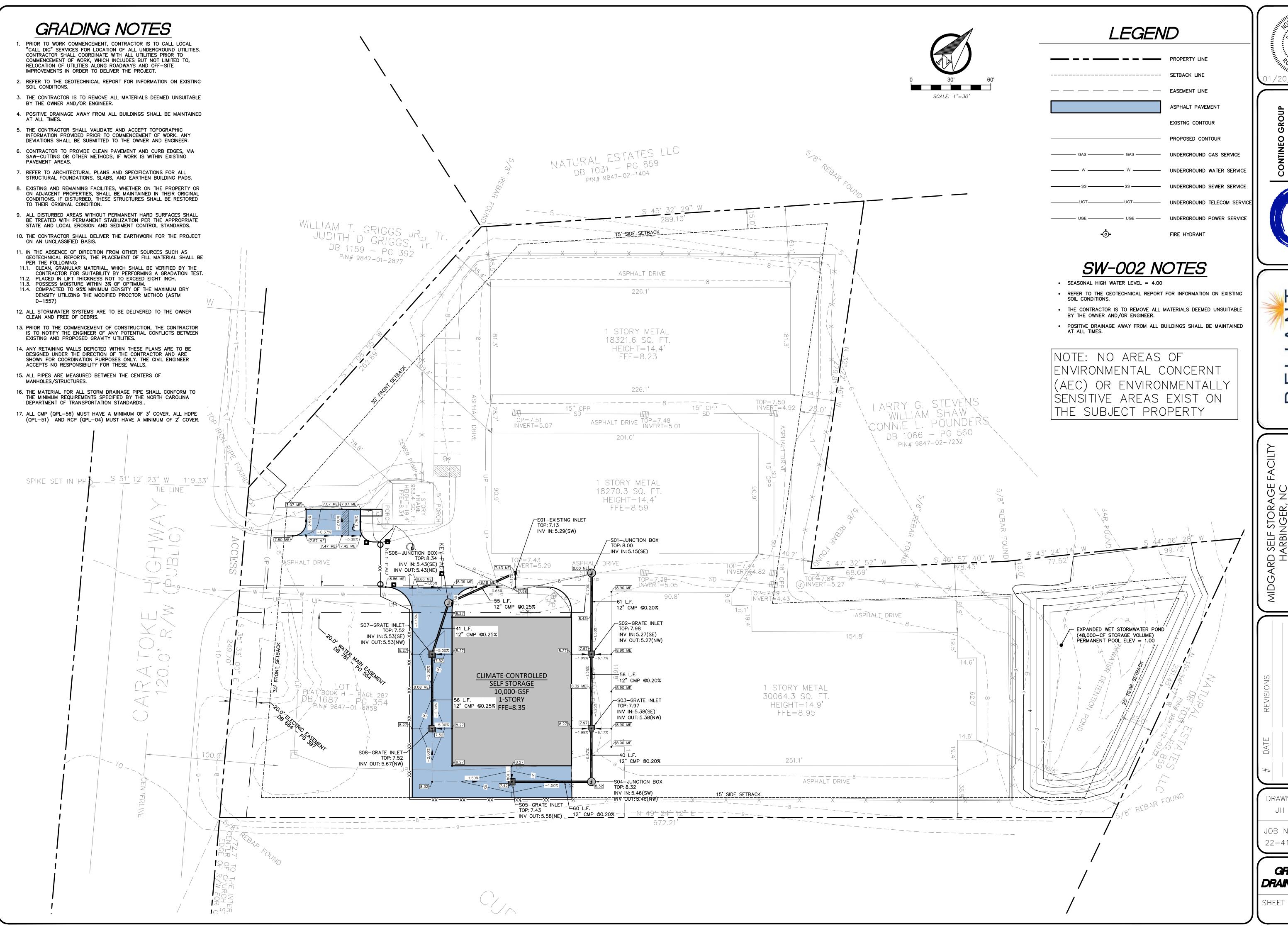
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SITE +
UTILITY PLAN

SHEET COOO



SEAL 037214

WILLIAM T. CRUMPHILLIAM T. CRUMPH

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770.609.8276

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GRADNG + DRAINAGE PLAN

C300

STRUCTURE LIFF ALLOWED = 2 YEARSPROPOSED = 6 MONTHS

MINIMUM SEDIMENT STORAGE AT 3,600-CF/ACRE:

> MINIMUM REQUIRED = 10,800-CF PROPOSED = 13,140-CF

SEE PROPOSED GRADING FOR TRAP 01 ON SHEET C200

AT 435 SQUARE FEET PER CFS OF Q10 PEAK FLOW:

Q10 PEAK FLOW = C*I*A = 0.5*7.13*3 = 10.69 CFS

10.69 * 435 = 4,652 SQUARE FEET OF SURFACE AREA REQUIRED

5,500 SQUARE FEET OF SURFACE AREA PROVIDED

MINIMUM L/W RATIO MINIMUM = 2:1 L:W

PROPOSED = 2.33:1 L:W

MINIMUM DEPTH

MINIMUM ALLOWED = 3.5 FEET, 1.5 FEET OF WHICH SHALL BE BELOW EXCAVATED GRADE MINIMUM PROPOSED = 5 FEET, 1.5 FEET OF WHICH IS EXCAVATED BELOW GRADE

MAXIMUM HEIGHT

MAXIMUM ALLOWED = 5 FEET MAXIMUM PROPOSED = 5 FEET

PROJECT NARRATIVE

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT 7 NEW SELF-STORAGE BUILDINGS TO EXPAND THE EXISTING A-1 SELF STORAGE FACILITY. ADDITIONAL PAVING, PARKING, AND MODIFIED SITE ENTRANCES ARE ALSO INCLUDED IN THE PROPOSED SCOPE. APPROXIMATELY 9.6 ACRES ARE PLANNED TO BE DISTURBED. THE SITE IS LOCATED AT 14731 LUCIA RIVERBEND HIGHWAY, STANLEY, NC (SEE VICINITY MAP ON SHEET C100).

SITE DESCRIPTION

THERE ARE THREE PRIMARY AREAS OF DISTURBANCE ON-SITE. AT THE NORTH-EAST CORNER OF THE PROPERTY, APPROXIMATELY 1.8 ACRES OF FULLY DEVELOPED PARCEL IS TO BE DEMOLISHED AND REPLACED WITH ONE CLIMATE-CONTROLLED SELF-STORAGE FACILITY, AND ONE NON-CLIMATE CONTROLLED BUILDING. THE EXISTING SLOPES IN THIS AREA ARE PAVED AND VARY BETWEEN 1% AND 6%. THE SLOPES STEEPEN TO A 2:1 SLOPE ALONG THE REAR OF THE EXISTING BUILDING TO BE DEMOLISHED. DRAINAGE IS CURRENTLY MANAGED BY A STORM TRUNK LINE THAT COLLECTS STORMWATER VIA A SERIES OF GRATE INLETS.

THE SECOND AREA OF DISTURBANCE IS APPROXIMATELY 0.5 ACRES. AND MAKES USE OF THE EXISTING PAVED AREA TO INSTALL ONE NON-CLIMATE CONTROLLED SELF-STORAGE FACILITY. THE EXISTING SLOPES IN THIS EXISTING PAVED AREA ARE RELATIVELY FLAT, BETWEEN 0% AND 4% SLOPES.

THE THIRD AREA OF DISTURBANCE IS APPROXIMATELY 5 ACRES. APPROXIMATELY HALF OF THIS 5-ACRE AREA IS CURRENTLY PAVED AND SHALL BE RE-GRADED TO ACCOMMODATE THE ADDITIONAL 4 SELF-STORAGE FACILITIES BEING PROPOSED, AS WELL AS TO ACCOMMODATE OUTDOOR RV PARKING STORAGE. SLOPES IN THIS PAVED AREA VARY BETWEEN 1% AND 8% SLOPES. THE OTHER HALF OF THIS 5-ACRE AREA IS CURRENTLY UNDEVELOPED, WITH STEEP SLOPES BETWEEN 10% AND 50%. THE EXISTING DITCH PASSING THROUGH THIS UNDEVELOPED AREA IS PROPOSED TO BE ROUTED AROUND THE NEW SELF-STORAGE FACILITIES.

THE REMAINING DISTURBED ACREAGE IS PAVED AREA THAT SHALL BE MILLED AND OVERLAID.

A MAJORITY OF THE SITE SHALL REMAIN UNDEVELOPED FOR THE PURPOSES OF THIS PROJECT, DUE TO AN EXISTING PERENNIAL STREAM THAT OCCUPIES THE WESTERN HALF OF THE PROPERTY.

THE LAND USE TO THE SOUTH AND NORTH OF THE PROPERTY IS FULLY DEVELOPED, WITH A MIX OF COMMERCIAL/OFFICE USES. TO THE WEST, BEYOND THE ON-SITE PERENNIAL STREAM, ARE A PAIR OF LOW-INTENSITY RESIDENTIAL SUBDIVISIONS.THE AREA TO THE WEST IS HEAVILY WOODED. ADDITIONAL SEDIMENT CONTROL MEASURES ARE PROPOSED TO ENSURE PREVENTION OF EROSION AND SEDIMENTATION OF THE EXISTING PERENNIAL STREAM ON-SITE.

THERE ARE THREE PRIMARY SOILS WITHIN THE PROPOSED LIMITS OF DISTURBANCE. CECIL SANDY CLAY LOAM, WITH SLOPES BETWEEN 2% AND 8% OCCUPY THE NORTHEAST CORNER OF THE SITE. WEDOWEE SANDY LOAM, WITH SLOPES BETWEEN 6% AND 15% OCCUPY A CENTRAL SWATH OF THE DISTURBANCE AREA. PACOLET SANDY LOAM TAKES UP THE REMAINDER OF THE DISTURBANCE AREA, WITH SLOPES BETWEEN 15% AND 25%.

CONSTRUCTION SEQUENCE

PHASE 1

- PICK-UP LAND DISTURBANCE PERMIT, FILE A N.O.I. (NOTICE OF INTENT) WITH THE E.P.D. (ENVIRONMENTAL PROTECTION DEPARTMENT), AND PROVIDE THE APPROPRIATE PAPERWORK AND COPIES TO THE LOCAL JURISDICTION ISSUING AUTHORITY. CONTRACTOR IS RESPONSIBLE TO SUPPLY, AND PAY THE APPLICABLE FEES TO THE LOCAL ISSUING AUTHORITIES. A COPY OF THE SIGNED PAPERWORK, ALONG WITH A COPY OF THE PERMIT FROM THE JURISDICTION, MUST BE PROVIDED TO THE OWNER/DEVELOPER AND THE CIVIL ENGINEER., AS WELL AS KEPT ON SITE AT ALL TIMES.
- 2. IF FOUND TO BE NEEDED BY THE LOCAL JURISDICTION, CALL FOR THE ON SITE PRE CONSTRUCTION MEETING OR S.W.P.P.P. (STORM WATER POLLUTION PROTECTION PLAN) PRE CONSTRUCTION MEETING. ATTENDEES SHALL INCLUDE CONTRACTORS, SUBCONTRACTORS, ENGINEERS, E.P.D., CITY / COUNTY OFFICIALS AND OR ANY OTHER PERSONNEL WHOM MAY INSPECT OR REVIEW THE STORM WATER MANAGEMENT ON THIS PROJECT. GOALS AND EXPECTATIONS SHALL BE REVIEWED IN DETAIL.
- 3. ANY NON DISTURBANCE OR RESTRICTED AREA BUFFERS SHALL BE LOCATED AND FLAGGED TO ENSURE COMPLIANCE.
- TREE SAVE FENCE SHALL BE INSTALLED. ENSURE TREE PROTECTION FENCE IS MAINTAINED THROUGHOUT CONSTRUCTION DURATION.
- 5. THE STABILIZED CONSTRUCTION EXIT / ENTRANCE SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY OCCURRING ON SITE. ANY REQUIRED TRAFFIC BARRIERS SHALL ALSO BE INSTALLED AT THIS TIME.
- 6. SILT FENCE AND/OR ORANGE SAFETY / CONSTRUCTION FENCE INSTALLATION SHALL BE COMPLETED. NOTE: THE INSTALLATION. THE CONTRACTOR IS TO ENSURE THERE ARE NO ADVERSE IMPACTS TO ANY ON SITE STREAMS OR WETLANDS, IF APPLICABLE.
- THE PREPARATION OF ANY TEMPORARY PARKING AND STORAGE AREA SHALL COMMENCE IF NEEDED. INCLUDING BUT NOT LIMITED TO SITE TRAILER, PARKING AREA, LAY DOWN, PORTABLE TOILETS, CONCRETE MIXER WASH OUT F PERMITTED, MASONS AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, SOIL STOCKPILE AREA ETC. THESE ITEMS ARE TO BE DENOTED ON THE EROSION CONTROL SITE MAPS BY THE CONTRACTOR IMMEDIATELY AND SHALL BE REVISED WITH ANY CHANGES IN LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS
- THE TEMPORARY SEDIMENT STORAGE/WHEEL WASH AREA SHALL BE INSTALLED AS DELINEATED ON THE PLANS. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY WHAT IS REQUIRED FOR THE INSTALLATION PROCEDURE.
- CONTACT THE JURISDICTIONAL AUTHORITY TO DETERMINE IF A PRE-CONSTRUCTION MEETING IS NEEDED. IF SO, THE GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT THE STORM WATER PRE-CONSTRUCTION MEETING WITH THE ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
- 10. THE CONTRACTOR SHALL BEGIN CLEARING AND GRUBBING OF VEGETATION AS NEEDED. REMOVAL OF TOPSOIL FOR LATER USE MAY BE PERFORMED.
- 11. IMMEDIATELY UPON COMPLETING THE INSTALLATION OF ALL INITIAL PERIMETER EROSION CONTROL MEASURES AND THE CONSTRUCTION ACTIVITIES COMMENCE. THE GENERAL CONTRACTOR MUST CONTACT THE CIVIL ENGINEER CONSULTANT TO INSPECT THE INSTALLATION OF THE B.M.P.'S. IT IS LEGALLY REQUIRED PER THE GENERAL PERMIT THAT THE CIVIL ENGINEER PERFORM A SITE INSPECTION OF THE B.M.P. INSTALLATION WITHIN 7-DAYS AFTER CONSTRUCTION COMMENCEMENT. CIVIL ENGINEER WILL NOT BE LIABLE TO FOLLOW UP WITH CONTRACTOR. IT IS SOLELY CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH CIVIL ENGINEER FOR OBTAINING THE REQUIRED 7-DAY INSPECTION.

- 12. GRADE SITE AS BEST NEEDED FOR INSTALLATION OF ALL UTILITIES, PAVING, BUILDING SLAB, AND RETAINING WALL(S) IF APPLICABLE.
- 13. AS EACH LIFT IN ELEVATION IS COMPLETED CARE SHALL BE TAKEN AS TO ENSURE THAT STABILIZATION AND EROSION PREVENTION HAS OCCURRED, ESPECIALLY AT THE END OF EACH WORK DAY.
- 14. AS THE SITE IS BROUGHT UP TO SUB GRADE, THE STORM DRAINAGE SYSTEM IS TO BE CONSTRUCTED. UTILIZE APPROPRIATE INLET PROTECTION DEVICES TO MINIMIZE SEDIMENT INTRUSION INTO THE STORM DRAINAGE SYSTEM.
- 15. THE GENERAL CONTRACTOR SHALL CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM SITE REVIEW AND SURVEY VERIFICATION, IF NEEDED. THE CONTRACTOR AND GEOTECHNICAL MATERIALS TESTING CONSULTANT ARE TO CERTIFY PLAN COMPLIANCE TO THE OWNER/DEVELOPER AT THE COMPLETION OF THE GRADING.
- 16. BUILDING PAD PREPARATION AND STABILIZATION SHALL OCCUR AS SOON AS POSSIBLE, THE CONTRACTOR SHALL NOTE THE DATE OF COMPLETION ON THE EROSION PLANS. CONTRACTOR MUST BE AWARE OF ANY GEOTECHNICAL REQUIREMENTS ASSOCIATED WITH FINAL COMPACTION OR FOUNDATION PREPARATION REQUIREMENTS.

<u>Phase 3</u>

- 17. PAVEMENT INSTALLATION SHALL OCCUR, APPROPRIATE INLET PROTECTION DEVICES AS WORK PROGRESSES SHALL
- BE INSTALLED. 18. FINAL FINE GRADING, PERMANENT SEEDING AND PLANTING SHALL BE COMPLETED.
- 19. THE CONTRACTOR SHALL REMOVE AND CLEAN ANY SEDIMENT FROM THE STORM WATER CONVEYANCE SYSTEM AS WELL AS THE DETENTION STRUCTURES, DRAINAGE SYSTEMS, AND/OR PONDS.
- 20. THE CONTRACTOR SHALL CONTACT THE JURISDICTIONAL INSPECTOR AND CIVIL ENGINEERING CONSULTANT FOR THE OWNER/DEVELOPER WHEN SITE IS FULLY STABILIZED FOR INSPECTION.
- 21. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES (BMP'S) SHALL BE REMOVED ONCE STABILIZATION, JURISDICTIONAL AND C.E.C. APPROVAL HAS BEEN ACHIEVED. ANY AREAS DISRUPTED BY THIS REMOVAL SHALL BE STABILIZED.
- 22. DAILY INSPECTION REPORTS SHALL CONTINUE UNTIL THE DEVELOPER HAS AGREED THAT THE SITE IS FULLY STABILIZED AND THE PERMIT MAY BE TERMINATED.
- 23. THE CONTRACTOR SHALL FILE THE N.O.T. (NOTICE OF TERMINATION) WITH THE GEORGIA E.P.D. FOR THE SITE CONSTRUCTION ACTIVITY. A COPY OF THE SIGNED N.O.T. BEING FILED MUST BE PROVIDED TO THE DEVELOPER, THE JURISDICTION. AND THE CIVIL ENGINEERING CONSULTANT

SPILL PREVENTION CONTROL COUNTER MEASURES AND SPILL REPORTING PLAN

- 1. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS.
- 2. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. IN SUCH EVENT, THE CONTRACTOR WILL REQUIRE A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN.
- ANY HAZARDOUS OR POTENTIALLY HAZARDOUS MATERIAL THAT IS BROUGHT ONTO THE CONSTRUCTION SITE WILL BE HANDLED PROPERLY IN ORDER TO REDUCE THE POTENTIAL FOR STORM WATER POLLUTION. ALL MATERIALS USED ON THIS SITE WILL BE PROPERLY STORED, HANDLED, DISPENSED AND DISPOSED OF FOLLOWING ALL APPLICABLE LABEL DIRECTIONS. MATERIAL SAFETY DATA SHEETS (MSDS) INFORMATION WILL BE KEPT ON SITE FOR ANY AND ALL APPLICABLE MATERIALS.
- 4. IN THE EVENT OF AN ACCIDENTAL SPILL, IMMEDIATE ACTION WILL BE UNDERTAKEN BY THE GENERAL CONTRACTOR TO CONTAIN AND REMOVE THE SPILLED MATERIAL. ALL HAZARDOUS MATERIALS WILL BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY FEDERAL, STATE AND LOCAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. AS SOON AS POSSIBLE, THE SPILL WILL BE REPORTED TO THE APPROPRIATE AGENCIES. AS REQUIRED UNDER THE PROVISIONS OF THE CLEAN WATER ACT, ANY SPILL OR DISCHARGE ENTERING WATERS OF THE UNITED STATES WILL BE PROPERLY REPORTED. THE GENERAL CONTRACTOR WILL PREPARE A WRITTEN RECORD OF ANY SPILL OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF 1 GALLON OR REPORTABLE QUANTITIES, WHICH EVER IS LESS, AND WILL PROVIDE NOTICE TO OWNER WITHIN 24-HOURS OF THE OCCURRENCE OF THE SPILL.
- 5. ANY SPILLS OF HAZARDOUS MATERIALS IN QUANTITIES IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY THE EPA OR THE STATE AGENCY REGULATIONS. SHALL BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) AND STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION AT (404) 656-4863 (INSIDE THE ATLANTA AREA) OR (800) 241-4113 (ALL OTHER AREAS IN THE STATE). THE REPORTABLE QUANTITY FOR PETROLEUM PRODUCTS AS DEFINED IN THE OFFICIAL CODE OF GEORGIA ANNOTATED (OCGA) 12-14-1(8) IS ANY DISCHARGE OF OIL INTO WATERS OF THE STATE WHICH WILL CAUSE A SIGNIFICANT FILM OR SHEET UPON OR DISCOLORATION OF THE SURFACE OF SUCH WATERS OR ADJOINING SHORELINES OR CAUSE A SLUDGE OR EMULSION TO BE DEPOSITED BENEATH THE SURFACE OF SUCH WATERS OR UPON ADJOINING SHORELINES. ADDITIONALLY, ANY LAND BASE PETROLEUM SPILL OR RELEASE IN EXCESS OF 25 GALLONS SHALL BE REPORTED IN ACCORDANCE WITH REQUIREMENTS OF THIS SECTION. ALL PETROLEUM SPILLS SHALL BE IMMEDIATELY REPORTED TO THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES AT (404) 656-4300 (INSIDE THE ATLANTA AREA) OR (800) 241-4113 (ALL OTHER AREAS IN THE STATE). THE REPORTABLE QUANTITY FOR HAZARDOUS MATERIAL'S OTHER THAN PETROLEUM PRODUCTS IS LISTED IN CFR TITLE 40 PART 117 (TABLE 117.3) AND CFR TITLE PART 302 (TABLE 302.4). DETAILED INFORMATION PERTAINING TO FEDERAL GOVERNMENT (CFR) REQUIREMENTS FOR HAZARDOUS MATERIALS REPORTABLE QUANTITIES AND HAZARDOUS MATERIALS DISCHARGE REPORTING REQUIREMENTS CAN BE FOUND ON THE INTERNET AT www.gpoaccess.gov/ecfr. DETAILED INFORMATION PERTAINING TO STATE GOVERNMENT REQUIREMENTS FOR HAZARDOUS MATERIALS REPORTABLE QUANTITIES AND HAZARDOUS MATERIALS DISCHARGE REPORTING REQUIREMENTS CAN BE FOUND ON THE INTERNET AT www.legis.state.ga.us.
- 6. IN ORDER TO MINIMIZE THE POTENTIAL FOR A SPILL OF PETROLEUM PRODUCT OR HAZARDOUS MATERIALS TO COME IN CONTACT WITH STORM WATER, THE FOLLOWING STEPS WILL BE IMPLEMENTED:
 - A. ALL MATERIALS WITH HAZARDOUS PROPERTIES (SUCH AS PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS, DETERGENTS, CONSTRUCTION CHEMICALS, ACIDS, PAINT, PAINT SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CONCRETE, CURING COMPOUNDS AND ADDITIVES, ETC.) WILL BE STORED IN A SECURE LOCATION, UNDER COVER, WHEN NOT IN USE.
 - B. THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS WILL BE KEPT ON THE JOB SITE AND SCHEDULED FOR DELIVERY AS CLOSE TO TIME OF USE AS PRACTICAL.
 - C. A SPILL CONTROL AND CONTAINMENT KIT (CONTAINING FOR EXAMPLE, ABSORBENT MATERIAL SUCH AS KITTY LITTER OR SAWDUST, ACID NEUTRALIZING AGENT, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, PLASTIC AND METAL TRASH CONTAINERS, ETC.) WILL BE PROVIDED AT THE STORAGE SITE.
 - D. ALL OF THE PRODUCT IN A CONTAINER WILL BE USED BEFORE THE CONTAINER IS DISPOSED OF. ALL SUCH CONTAINERS WILL BE TRIPLE RINSED, WITH WATER PRIOR TO DISPOSAL. THE RINSE WATER USED IN THESE CONTAINERS WILL BE DISPOSED OF IN A MANNER IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS AND WILL NOT BE ALLOWED TO MIX WITH STORM WATER DISCHARGES.
 - E. ALL PRODUCTS WILL BE STORED IN AND USED FROM THE ORIGINAL CONTAINER WITH THE ORIGINAL
 - F. ALL PRODUCTS WILL BE USED IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL.
 - G. THE DISPOSAL OF EXCESS OR USED PRODUCTS WILL BE IN COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT'S LABEL.

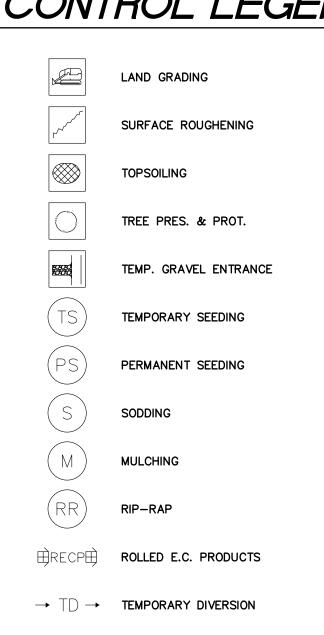
POST CONSTRUCTION BMPs

- . MAINTAIN LANDSCAPE AREAS.
- 2. PROVIDE PETROLEUM SPILL CLEAN-UP KIT ON SITE AT ALL TIMES.
- 3. KEEP REFUSE COLLECTED WITHIN THE APPROPRIATE CONTAINERS.
- 4. MAINTAIN STORMWATER COLLECTION SYSTEMS ON PROPERTY ANNUALLY BY CLEANING OUT DEBRIS. SEDIMENT, AND GRIME.
- 5. MAINTAIN STORMWATER DRAINAGE SYSTEMS PER MANUFACTURER REQUIREMENTS.

DESCRIPTION OF BMPs TO REDUCE POLLUTANTS IN STORMWATER DISCHARGES

- PETROLEUM BASED PRODUCTS CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS SHALL BE PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
- PAINTS/FINISHES/SOLVENTS ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- CONCRETE TRUCK WASHING CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.
- FERTILIZER/HERBICIDES THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED
- BUILDING MATERIALS NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

E+S CONTROL LEGEND



GRASS-LINED CHANNEL **OUTLET STABILIZATION** TEMP. EXC. INLET PROT.

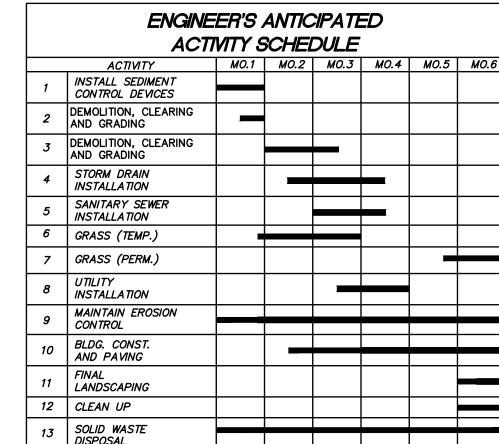


 $\rightarrow \square \longrightarrow \square$ PERMANENT DIVERSION



DUST CONTROL

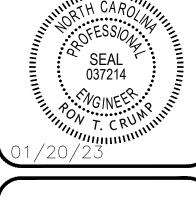
— SF— SILT FENCE



NOTES: • NO GRADING OPERATIONS ARE TO COMMERCE UNTIL ALL PERIMETER AND SEDIMENT STORAGE BMPs HAVE BEEN PROPERLY INSTALLED AND INSPECTED. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL FINAL SITE STABILIZATION HAS

BEEN ESTABLISHED. CONTRACTOR IS RESPONSIBLE TO ADJUST AND/OR UPDATE THEIR OWN CONSTRUCTION SCHEDULE. CONSTRUCTION IS ESTIMATED TO COMMENCE DURING THE MONTH OF SEPTEMBER

SEAL 037214 MGINEE



ONTINEO GROUP COMMERCE DRIVE



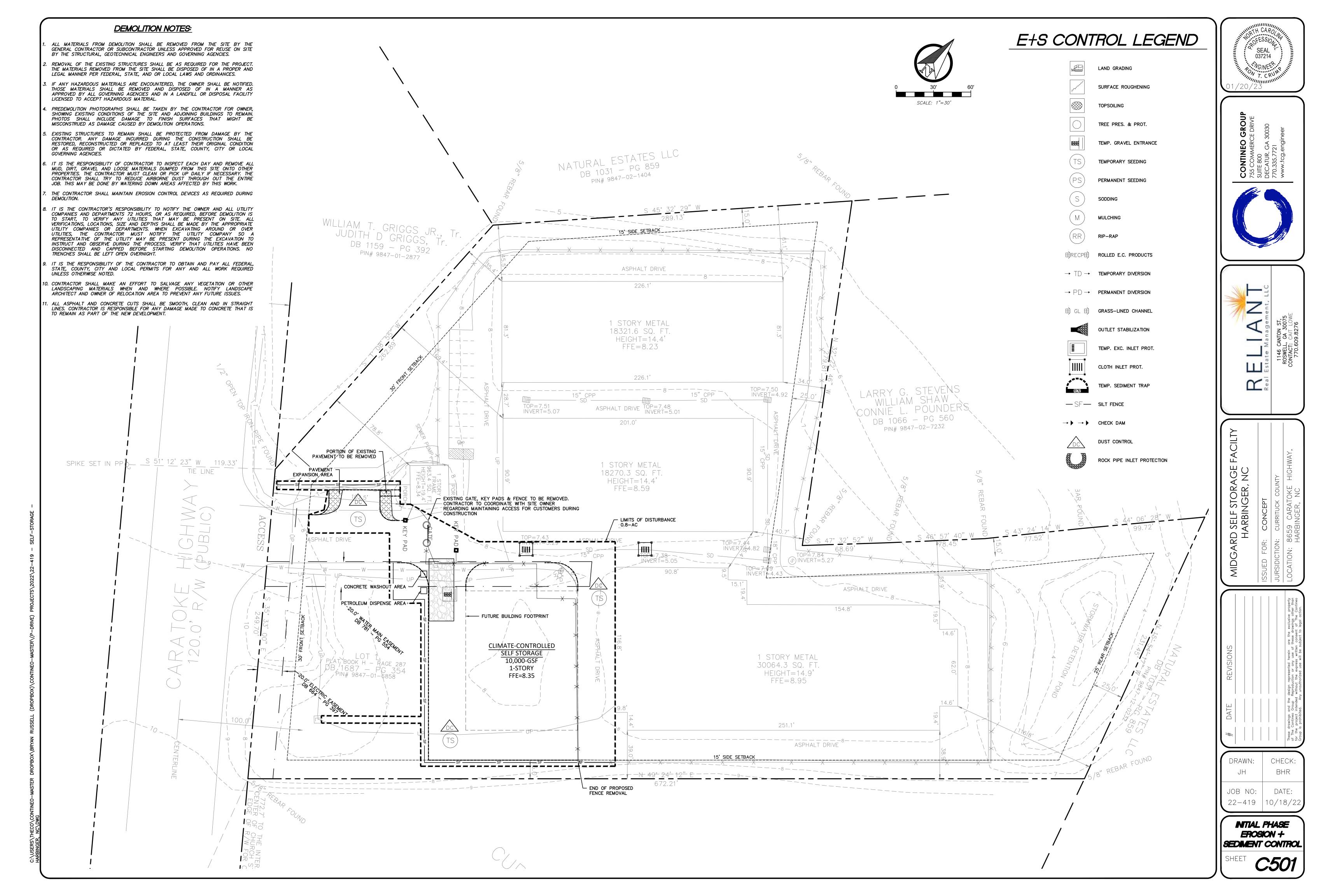


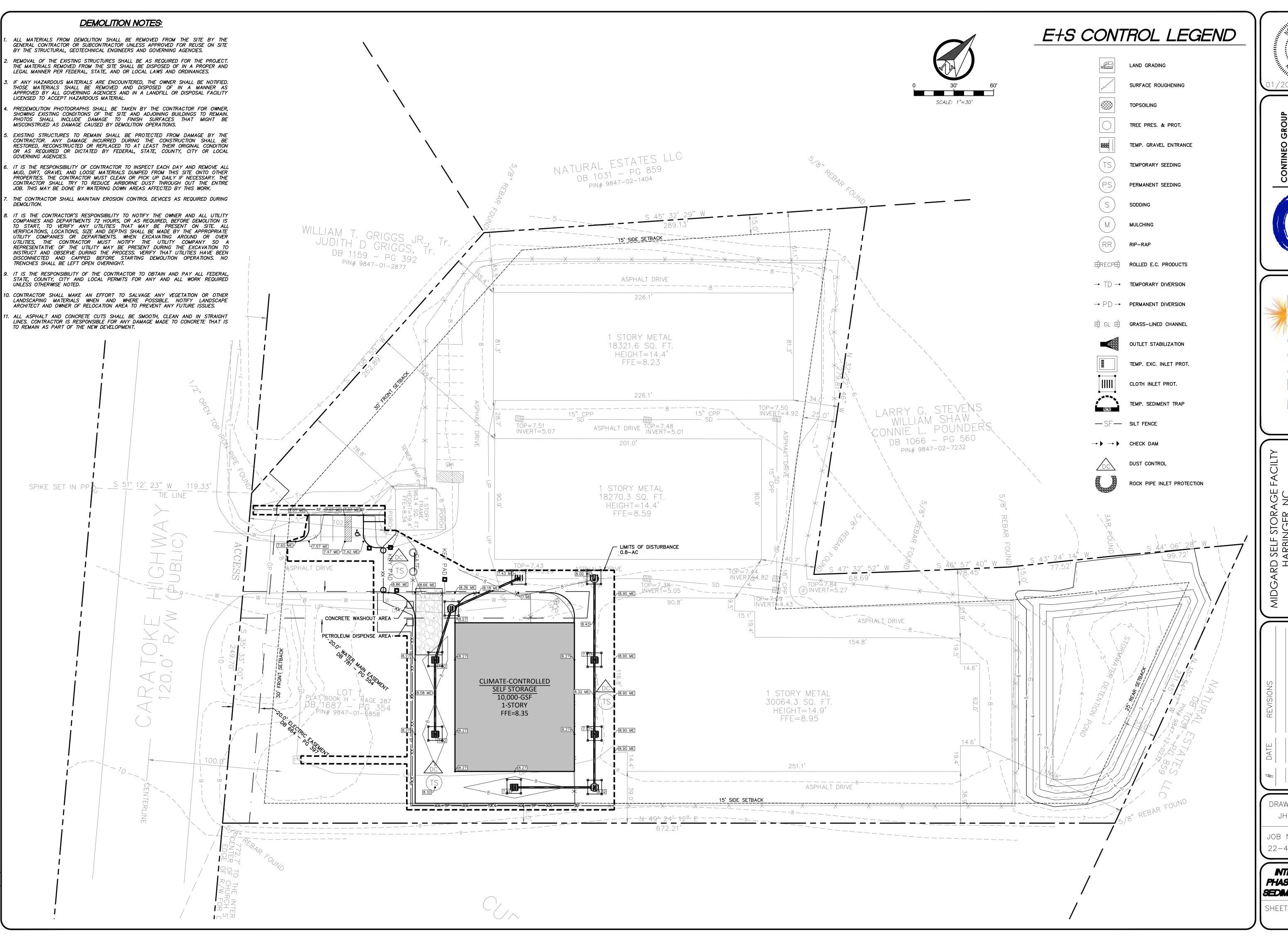
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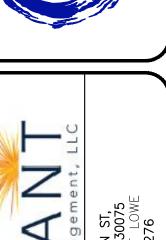












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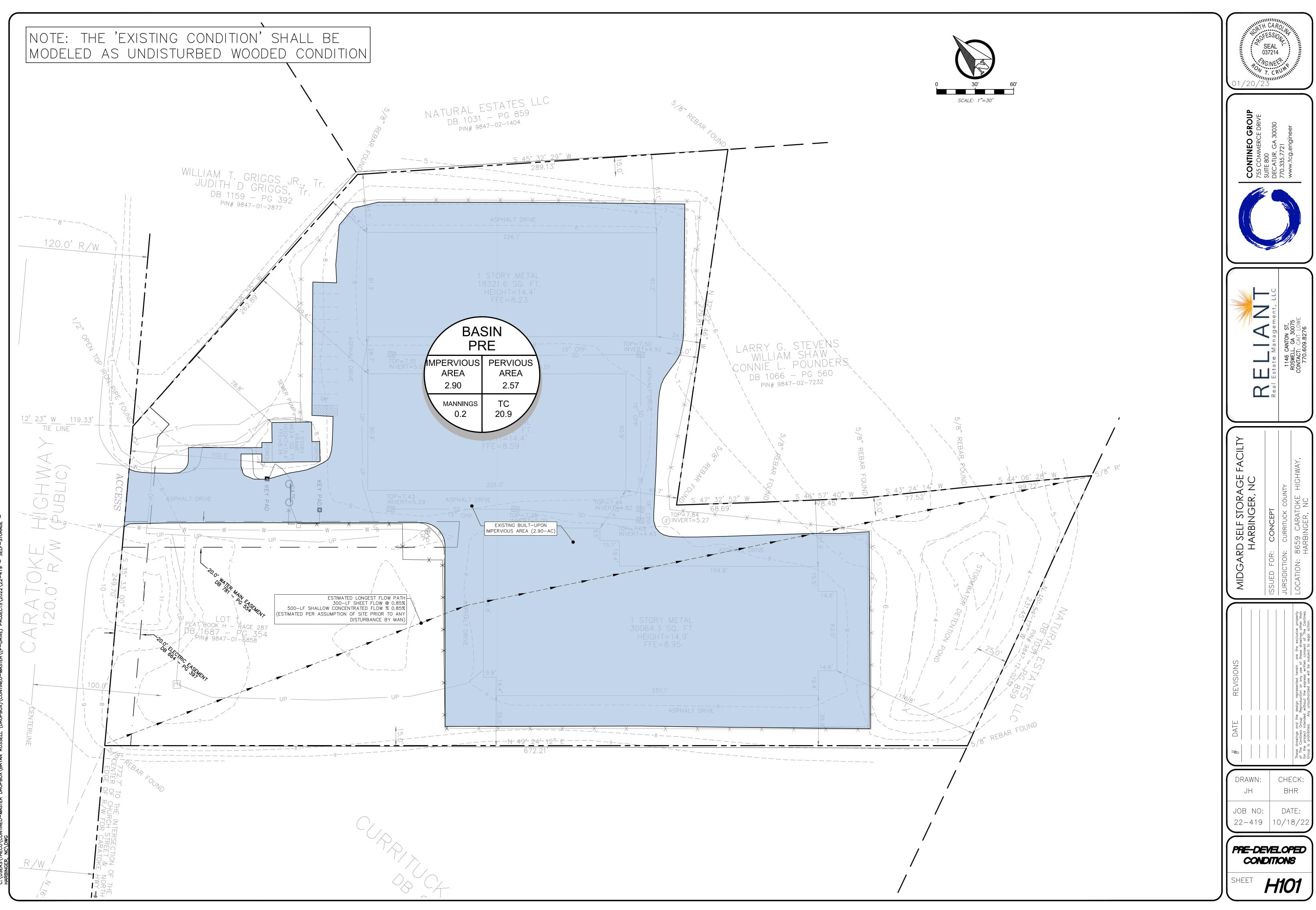
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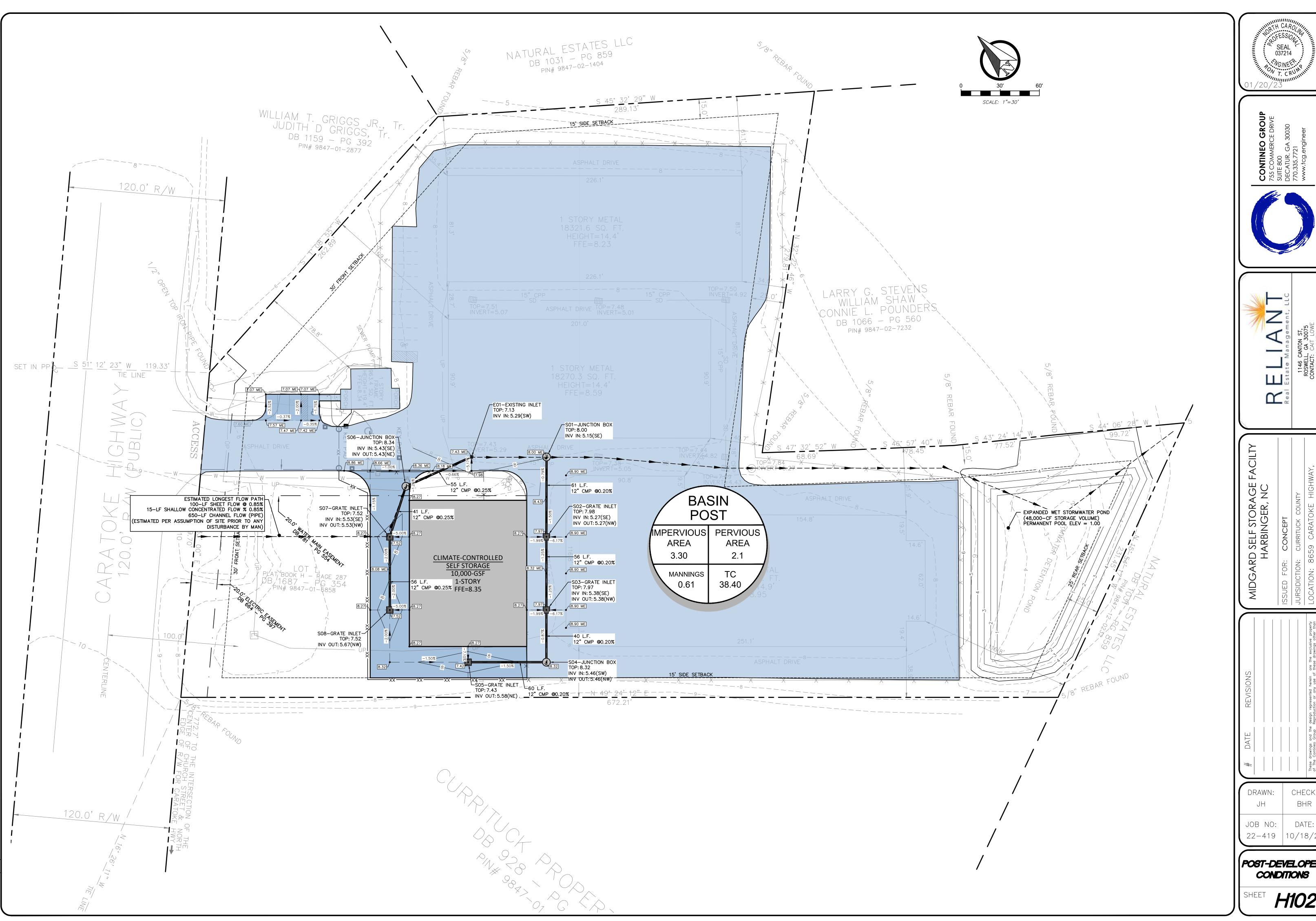
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INTERMEDIATE
PHASE EROSION +
SEDIMENT CONTROL



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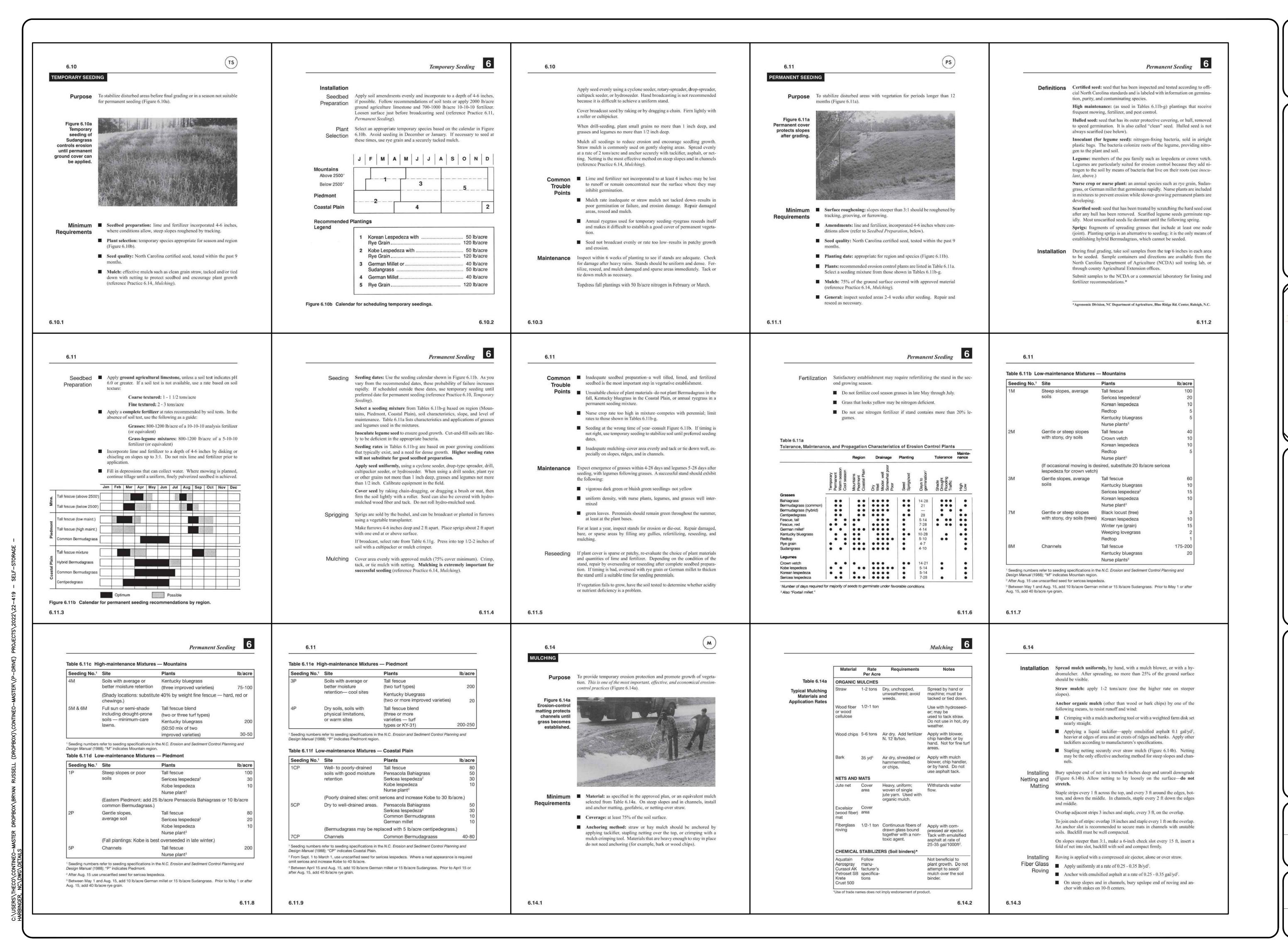






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POST-DEVELOPED



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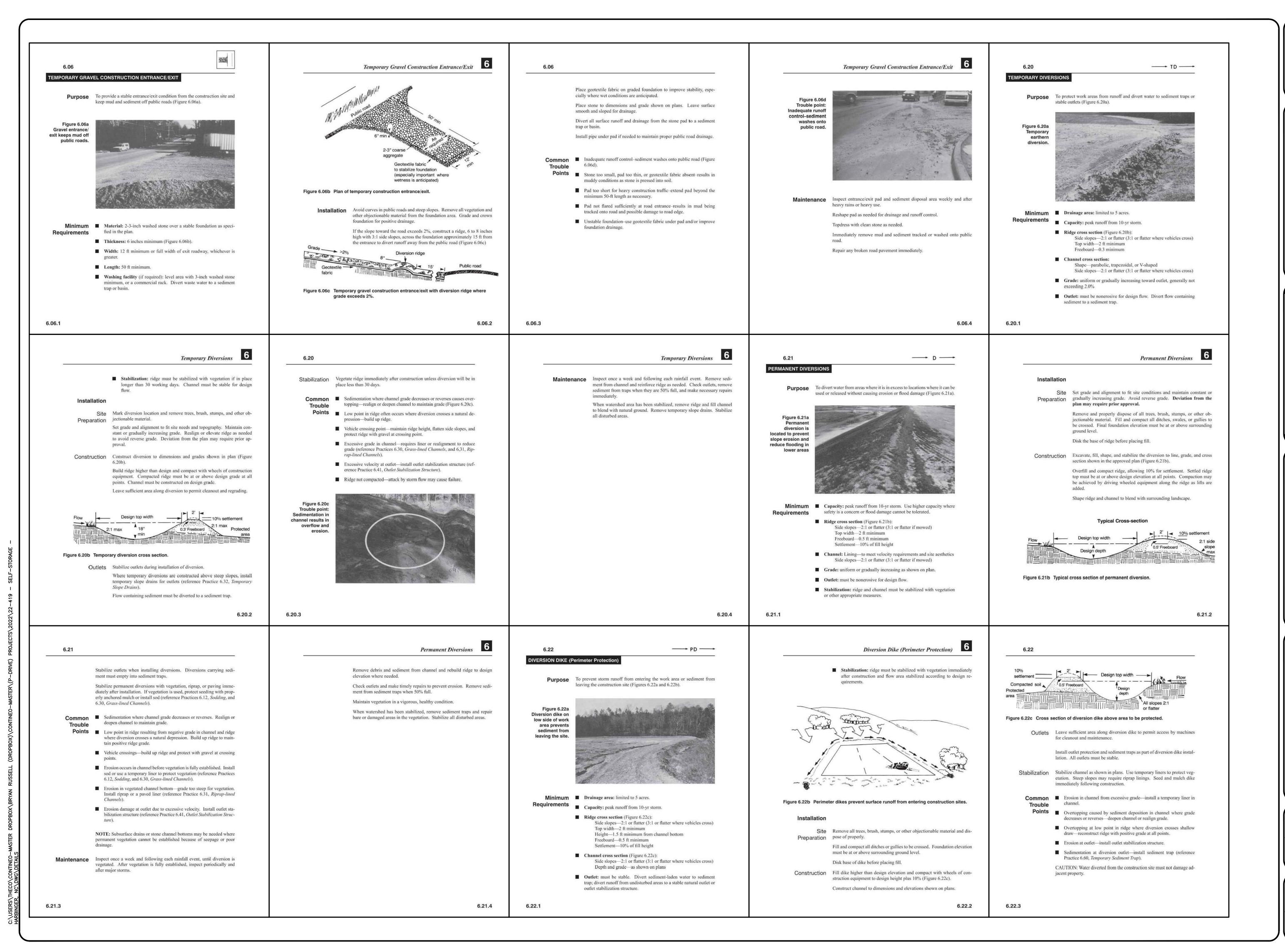
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E+S BMPs **VEGETATIVE**



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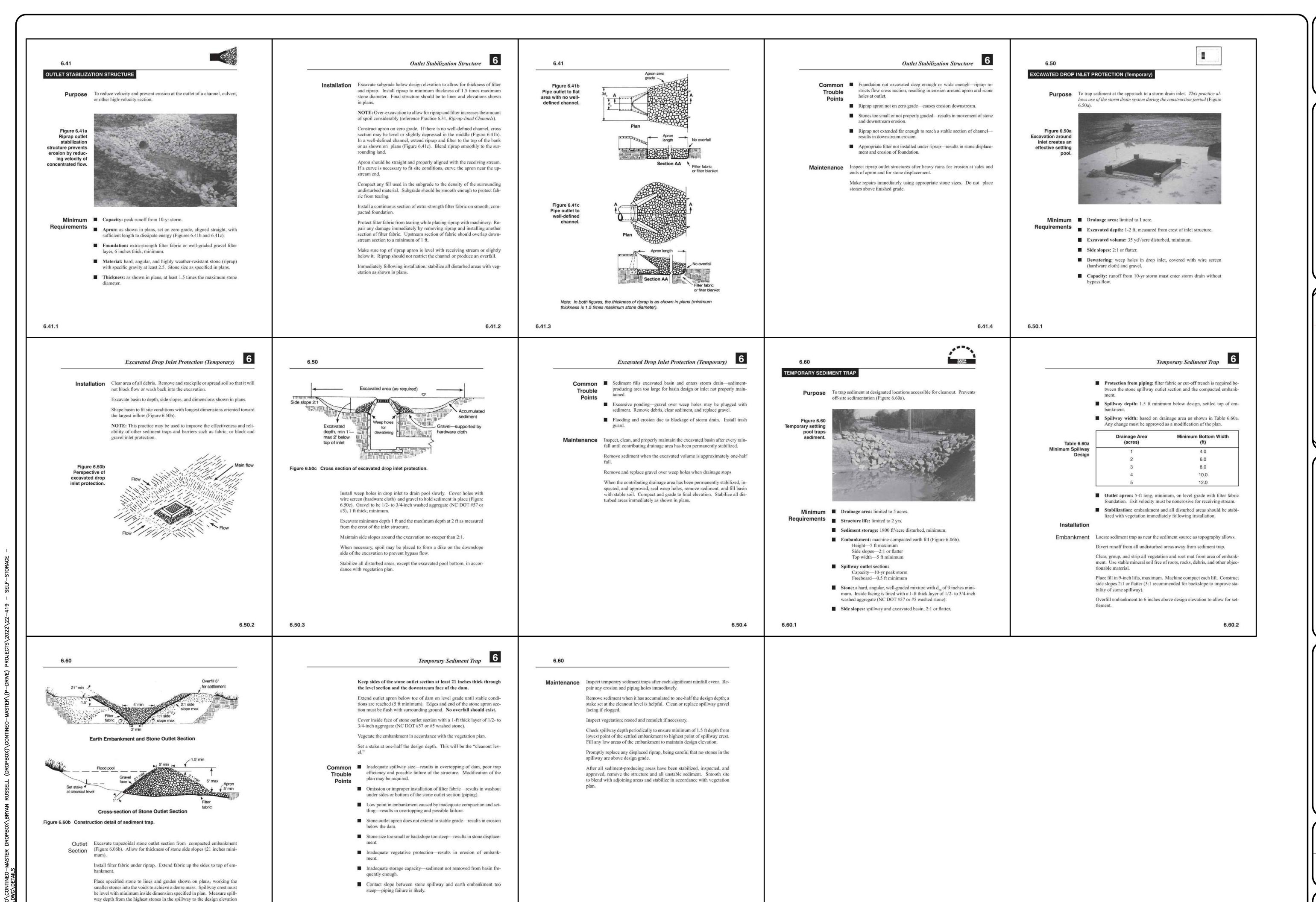
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E+S BMPs -STRUCTURAL



6.60.4

6.60.5

of dam. Minimum depth is 1.5 ft.

6.60.3

037214



SELF STOFI PARBINGER

JOB NO: 22-419 | 10/18/2

E+S BMPs

Purpose To reduce velocity and prevent erosion at the outlet of a channel, culvert, or other high-velocity section.



Minimum Capacity: peak runoff from 10-yr storm.

- Requirements Apron: as shown in plans, set on zero grade, aligned straight, with sufficient length to dissipate energy (Figures 6.41b and 6.41c).
 - Foundation: extra-strength filter fabric or well-graded gravel filter layer, 6 inches thick, minimum.
 - Material: hard, angular, and highly weather-resistant stone (riprap) with specific gravity at least 2.5. Stone size as specified in plans.
 - Thickness: as shown in plans, at least 1.5 times the maximum stone

ROCK DAM

Purpose To trap sediment on the construction site and prevent off-site sedimentation. Useful where earth fill material is not readily available (Figure

Figure 6.63a Wide spillway keeps discharge velocity low.



Requirements

- Minimum Drainage area: limited to 50 acres. ■ Design life: limited to 3 yrs.
 - Sediment storage: 1800 ft³/acre disturbed minimum, measured 1 ft below spillway crest.
 - Dam crest height: limited to 8 ft.
 - Basin area and shape: the largest surface area gives the greatest trapping efficiency. Basin length-to-width ratio should be 2:1 mini-
 - Spillway capacity: 10-yr peak runoff, at maximum flow depth of 1 ft and minimum freeboard of 1 ft. Entire length of dam between rock abutments may serve as spillway.

Rock Dam 6

- Top width—5 ft minimum Side slopes-upstream, 2:1 or flatter -downstream, 3:1 or flatter

■ Rock embankment (Figure 6.63b):

- **Earth abutments:** smooth, stable slopes, 2:1 or flatter.
- Rock abutments: must protect earth abutments and extend along downstream face to toe of dam. Abutments must be at least 1 ft higher than the spillway face at all points.
- Height—2 ft minimum above spillway crest Width-2 ft thick, minimum Side slopes—2:1 or flatter
- Outlet protection: rock apron, 1.5 ft thick, minimum, zero grade, length equal to height of dam or extended to stable grade, whichever
- Rock material: well graded, hard, angular, weather-resistant stone
- width of d₅₀ of 9 inches minimum. ■ Protection from piping: extra-strength filter fabric covers entire
- foundation including earth abutments and apron (Figure 6.63b). ■ Basin dewatering: through 1 ft thick minimum layer of 1/2- to 3/4inch aggregate on upstream face of dam (NC DOT #57 or #5 washed

Installation Divert runoff from undisturbed areas away from the basin (reference Practice 6.20, Temporary Diversions). Delay clearing pond area until dam is

> Excavate foundation for apron and use it as a temporary sediment basin during construction of dam. Clear and grub area under dam, removing all root mat and other objectionable material. Grade earth abutments no steeper than 1:1. Dispose of

material in approved location.

If cutoff trench is required, excavate at center line of dam, extending all the way up earth abutments.

6.63.2

Protection from The entire foundation including both earth abutments must be covered Piping by filter fabric. Overlap 1 ft at all joints, upstream strip over downstream strip (Figure 6.63b).

face of dam at all points (Figure 6.63c).

Smooth the foundation area before placing filter fabric. Be careful plac-

ing rock on fabric. It may be helpful to place a 4-inch layer of sand over fabric before placing rock. Embankment Construct embankment to dimensions shown on plans. Use well-graded,

higher than the spillway crest and at least 1 ft higher than the downstream

and Pool hard, angular, weather-resistant rock. Rock abutments must be at least 2 ft

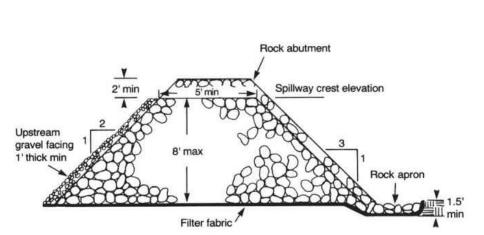


Figure 6.63b Rock dam cross section.

Divert sediment-laden flow to upper end of basin.

Set marker stake to indicate clean-out elevation where sediment pool is

Stabilize all disturbed areas except the lower one-half of sediment pool as shown in the vegetation plan.

Safety Sediment basins that impound water are hazardous. Basin should be dewatered between storms. Avoid steep side slopes. Fences with warning signs may be necessary if trespassing is likely. State and local requirements must be followed.

Spillway Detail

Rock Dam

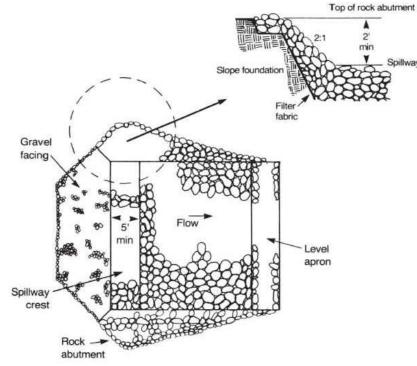


Figure 6.63c Plan view of rock dam with spillway detail.

6.63.4

Common Failure from piping along abutments—filter material not properly installed, or earth abutments too steep.

- Points Stone displaced from face of dam—stone size too small and/or face too steep.
 - Erosion of abutments during spillway flow—rock abutment height inadequate.
 - Sediment carried through spillway—drainage area too large. Divert runoff from undisturbed area away from basin.
- Sediment loss through dam—inadequate layer of aggregate on inside face or aggregate too coarse to restrict flow through darn.

Maintenance Inspect rock dam and pool after each rainfall event.

Remove sediment when it accumulates to one-half design volume (marked by stakes).

Check structure and abutments for erosion, piping, or rock displacement. Repair immediately.

not drain between storms. Add fine gravel to upstream face of dam if sediment pool drains too rap-

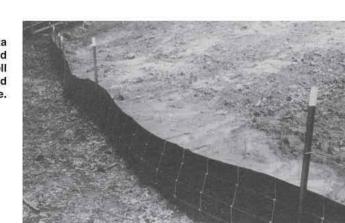
idly (less than 6 hrs) following a storm. Remove rock dam after the contributing drainage area has been permanently stabilized, inspected, and approved. Remove all water and sediment prior to removing dam. Dispose of waste materials in designated disposal areas. Smooth site to blend with surrounding area and stabilize

SEDIMENT FENCE (Silt Fence)

Purpose To retain sediment from small, sloping disturbed areas by reducing the velocity of sheet flow (Figure 6.62a).

Figure 6.62a Sediment trapped behind well supported sediment fence.

6.63.1



Minimum Drainage area: limited to 1/4 acre per 100 ft of fence. Area is further restricted by slope steepness as shown in Table 6.62a.

	Table 6.62a
	Maximum Land
Sid	pe and Distance
	for Which
	Sediment Fence
	is Applicable
	Control 18 Carrier Strategy

6.62.1

	Maximum Slope
Land Slope (%)	Distance Above Fence (ft)
<2	100
2 to 5	75
5 to 10	50
10 to 20	25
>20	15

Sediment Fence (Silt Fence) 6

- Location: Fence should be nearly level and at least 10 ft from the toe of slopes to provide a broad, shallow sediment pool (Figure 6.62b). Spacing of support posts: 8 ft maximum if fence is supported by wire, 6 ft maximum for extra-strength fabric without support-wire
- Trench: bottom 1 ft of fence must be buried 8 inches deep mini-
- Fence height: depth of impounded water should not exceed 1.5 ft at any point along the fence.
- Support posts: 4-inch diameter pine or 1.33 lb/linear ft steel, buried or driven to depths of 18 inches. Steel posts should have projections for fastening fabric.
- Support wire: wire fence (14 ga with 6-inch mesh) is required to support standard-strength fabric.
- Reinforced, stabilized outlets (Figure 6.62c): located to limit water depth to 1.5 ft measured at lowest point along fenceline. Outlet allows safe storm flow bypass.
 - Crest height-1 ft maximum Width of splash pad—5 ft minimum
- Length of splash pad—5 ft minimum
- Fence fabric: synthetic filter fabric conforming to specifications in Table 6.62b, and containing UV inhibitors and stabilizers to provide a life of 6 months minimum at temperatures from 0° to 120°F. (Burlap may be used for short periods, not exceeding 60 days.)

Table 6.6
Specification
for Sedime
Fence Fab

Physical Properties	Minimum Requirements
Filtering efficiency	85%
Tensile strength at	
20% (max) elongation: Standard strength	30 lb/linear inch
Extra strength	50 lb/linear inch
Slurry flow rate	0.3 gpm/ft ²

6.62.2

6.62.3

6.63.3

Installation NOTE: Sediment fence captures sediment by backing up water to allow deposition. It is relatively ineffective for filtration because it clogs too rapidly. The sedimentation pool behind the fence is very effective

To use sediment fence effectively, provide access to the locations where

Sediment fence is most effective when used in conjunction with other practices such as perimeter dikes or diversions.

ment storage and access for cleanout (Figure 6.62b).

The fence line should be nearly level through most of its length to impound a broad, temporary pool. Stabilized outlets are required for bypass flow, unless fence is designed to retain all runoff from the 10-yr storm (Figure 6.62b).

The fence line may run slightly off level (grade less than 1%) if it terminates in a level section with a stabilized outlet, diversion, basin, or sediment trap. There must be no gullying along the fence or at the ends. SediSediment Fence (Silt Fence)

Stabilized erosion. Outlets Set outlet elevation so that water depth cannot exceed 1.5 ft at the lowest point along the fenceline (Figure 6.62c).

pad must be stable.

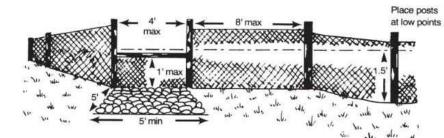


Figure 6.62c Perspective of reinforced, stabilized outlet for sediment fence.

Construction Dig a trench approximately 8 inches deep and 4 inches wide, or a V-trench,

Drive posts securely, at least 18 inches into ground, on the downslope spacing to place posts at low points along the fenceline.

joints, particularly at low points in the fence line. Where joints are neces-

6.62.4

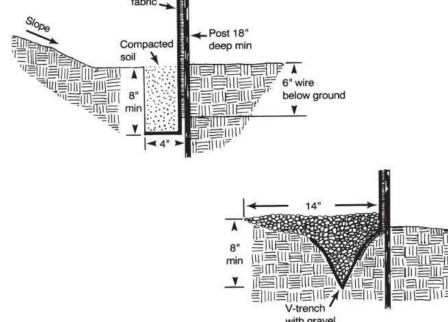


Figure 6.62d Detail of sediment fence installation.

Place the bottom 1 ft of fabric in 8-inch deep trench lapping toward the upslope side. Backfill with compacted earth or gravel as shown in Figure

To reduce maintenance, excavate a shallow sediment storage area on upslope side of fence where sedimentation is expected. Provide good access to deposition areas for cleanout and maintenance.

DO NOT install sediment fence across intermittent or permanent streams, channels, or any location where concentrated flow is antici-

6.62.5

Sediment Fence (Silt Fence)

- too much sediment accumulation allowed before cleanout,
- approach too steep, or
- Fence fails from undercutting—common causes are:
- Fence is overtopped—common causes are:
- no provision made for safe bypass of storm flow.
- Do not locate fence across drainage way. Erosion occurs around end of fence—common causes are:
- fence terminates at unstabilized area, or

Maintenance Sediment fence requires a great deal of maintenance. Inspect sediment

it immediately. Replace burlap at least every 60 days.

dermining fence during clean out. Remove all fencing materials and unstable sediment deposits after the

contributing drainage area has been properly stabilized, inspected, and approved. Bring the disturbed area to grade and stabilize as shown in the

Common Fence sags or collapses—common causes are: Trouble drainage area too large,

- bottom of fence not buried at least 8 inches at all points,
- storage capacity inadequate, or

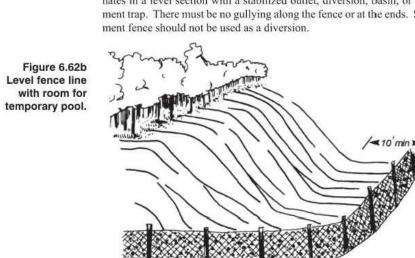
- fence terminates at elevation below the top of the temporary pool,

Should fabric tear, decompose, or in any way become ineffective, replace

and may reduce the need for expensive traps and basins.

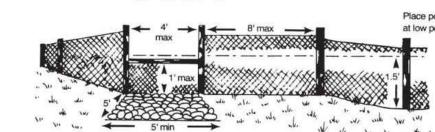
sediment accumulates and provide reinforced, stabilized outlets for emergency overflow (Figure 6.62c).

Location Locate the fence at least 10 ft from the toe of steep slopes to provide sedi-



Reinforced, Any outlet where storm flow bypass occurs must be stabilized against

splash pad as shown in Figure 6.62c. Excavate foundation for the splash pad a minimum of 5 ft wide, 1 ft deep, and 5 ft long on level grade. The finished surface of the riprap should blend with surrounding area, allowing no overfall. The area around the



in the line of the fence as shown in Figure 6.62d. side of the trench. Space posts a maximum of 8 ft if fence is supported by wire, 6 ft if extra-strength fabric is used without support wire. Adjust

Fasten support wire fence to upslope side of posts, extending 6 inches into the trench as shown in Figure 6.62d.

Set fabric height at 1 ft maximum between support posts spaced no more than 4 ft apart. Install a horizontal brace between the support posts to serve as an overflow weir and to support top of fabric. Provide a riprap

Attach continuous length of fabric to upslope side of fence posts. Avoid

sary, fasten fabric securely to support posts and overlap to the next post.

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E+S BMPs STRUCTURAL

Allow for safe bypass of storm flow to prevent overtopping failure of

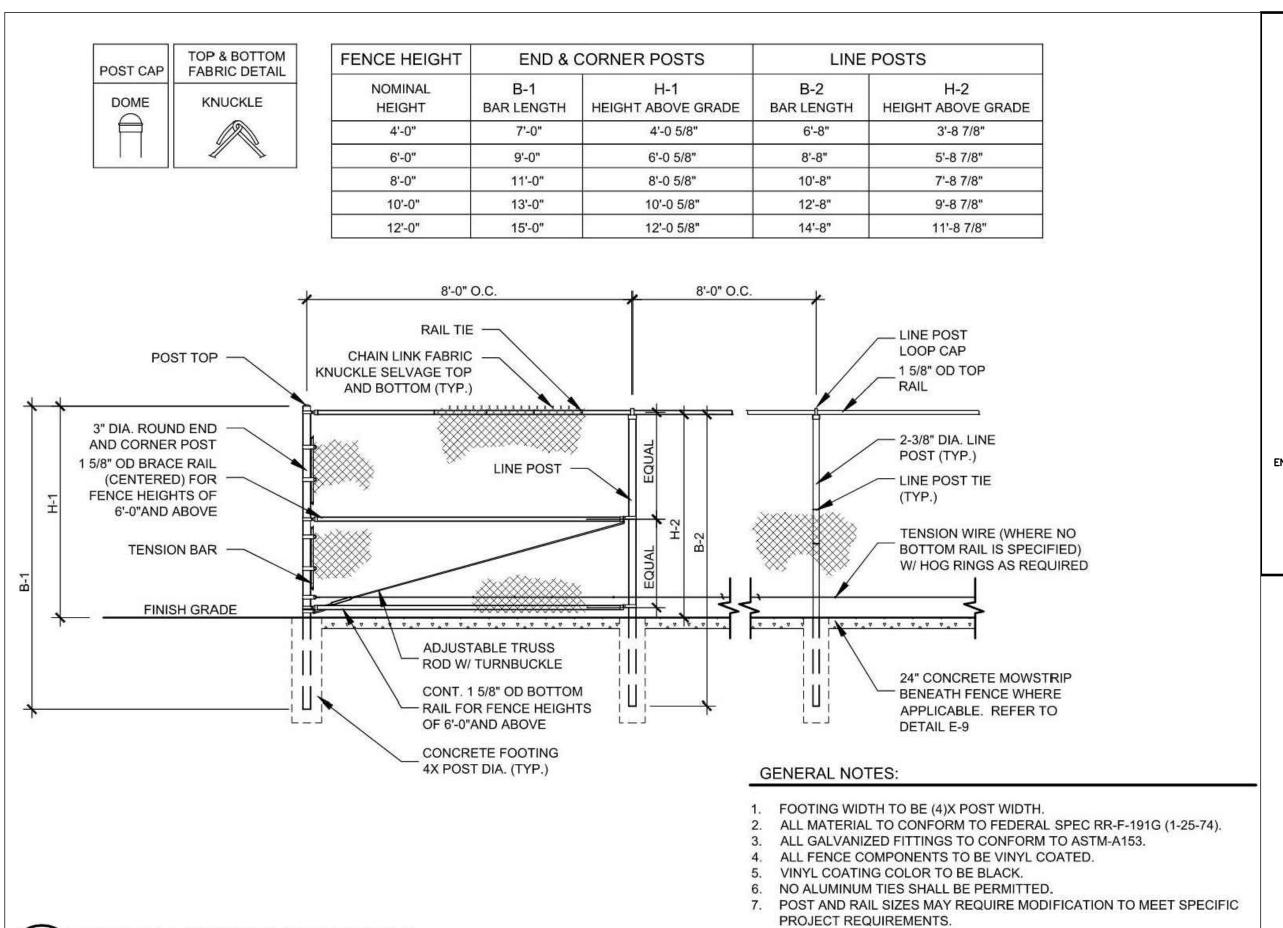
fence not adequately supported.

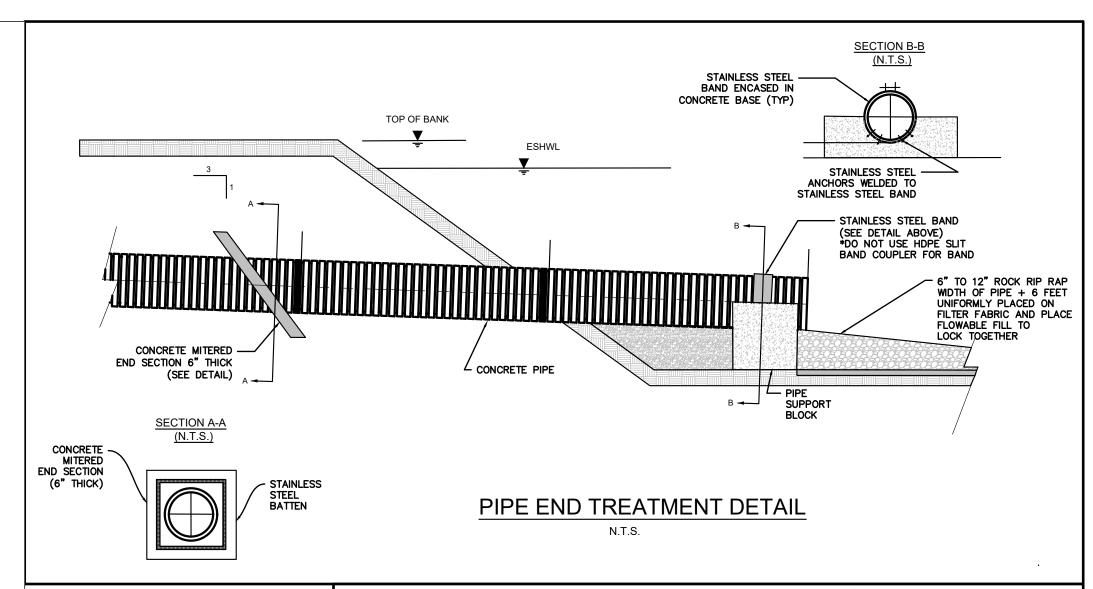
 trench not backfilled with compacted earth or gravel, fence installed on excessive slope, or fence located across drainageway.

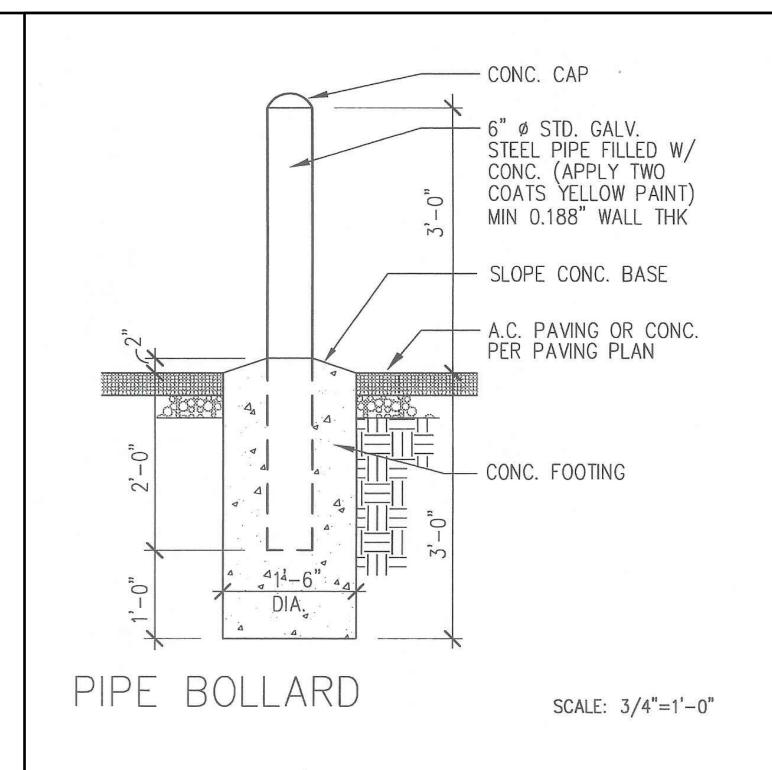
fence located on excessive slope. fences periodically and after each rainfall event.

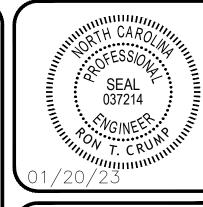
Remove sediment deposits promptly to provide adequate storage volume for the next rain and to reduce pressure on fence. Take care to avoid un-

6.62.6









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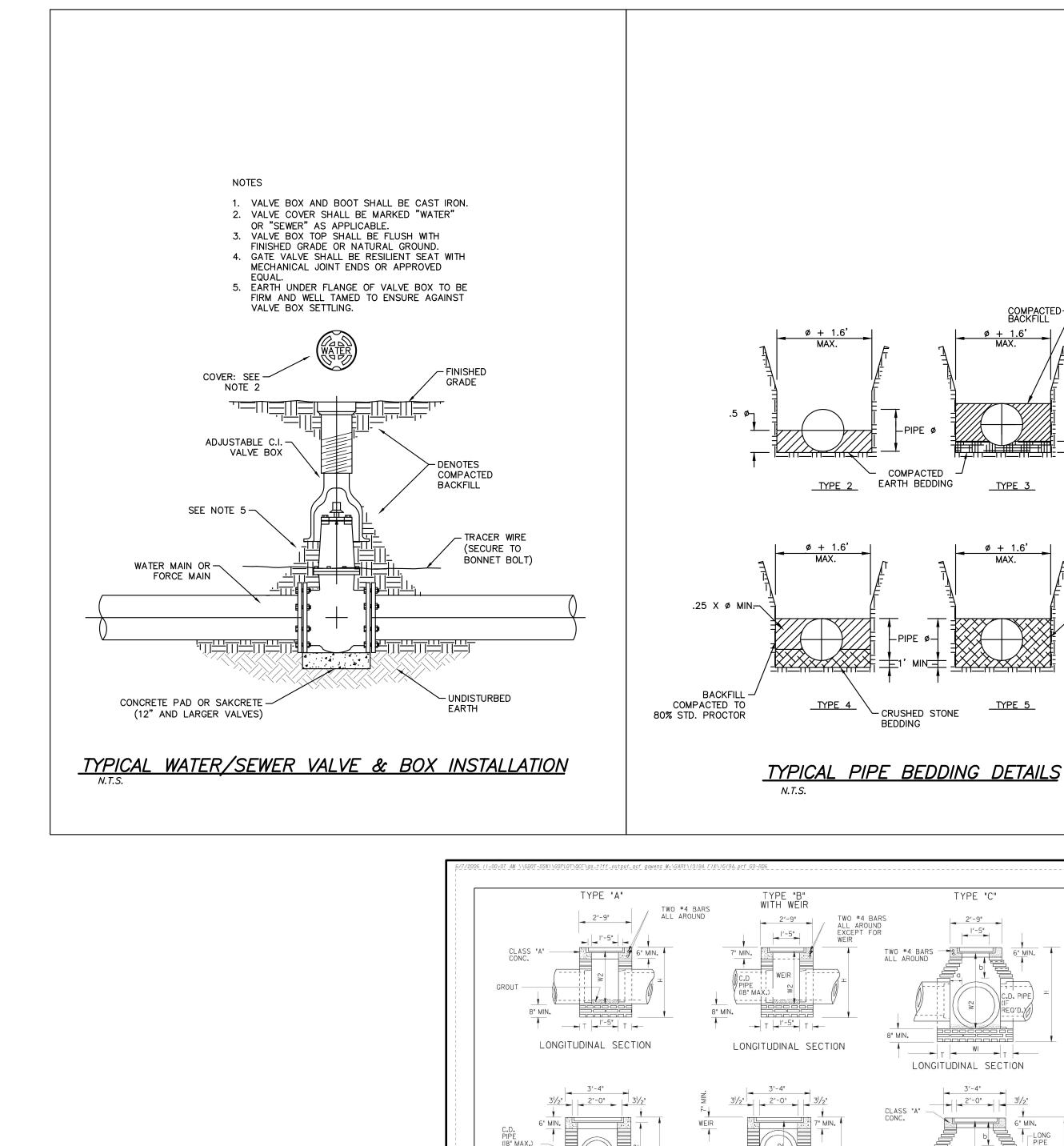
LOCATION: 8659 CARATOKE HIGHWAY,
HARBINGER NC

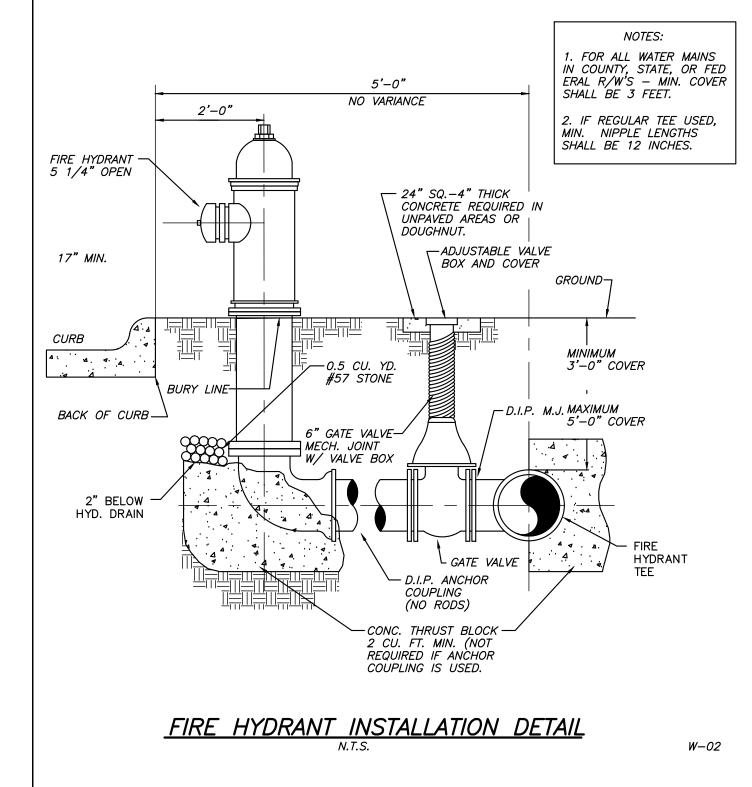
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DATE			awings and the Sontineo Group project intended
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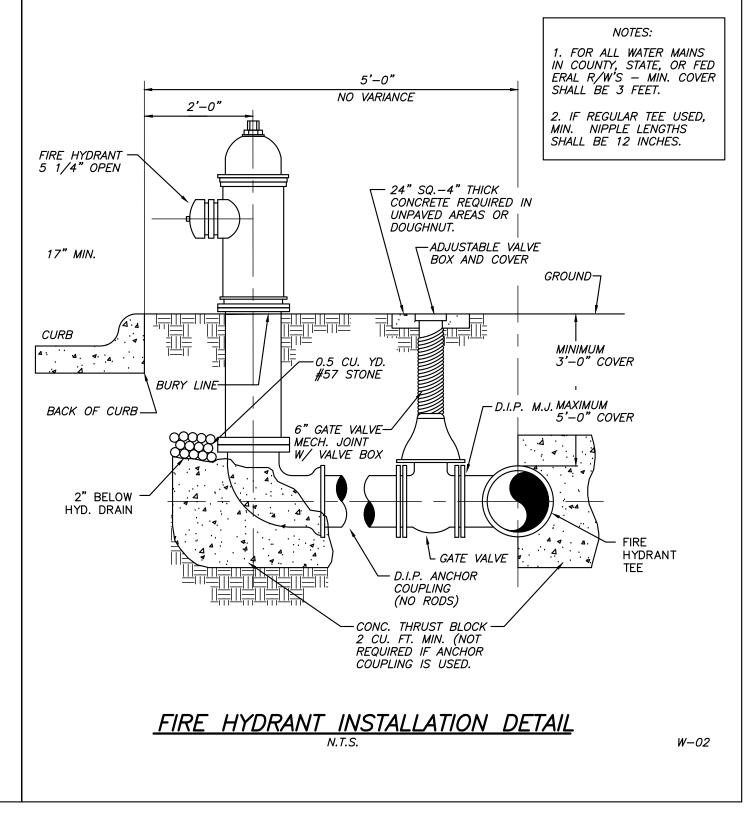
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JOB NO:	DATE:	
22-419	10/18/22	

STANDARD DETAILS

C701





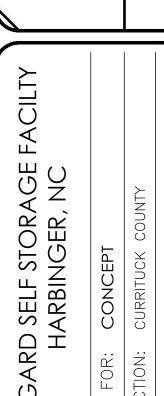






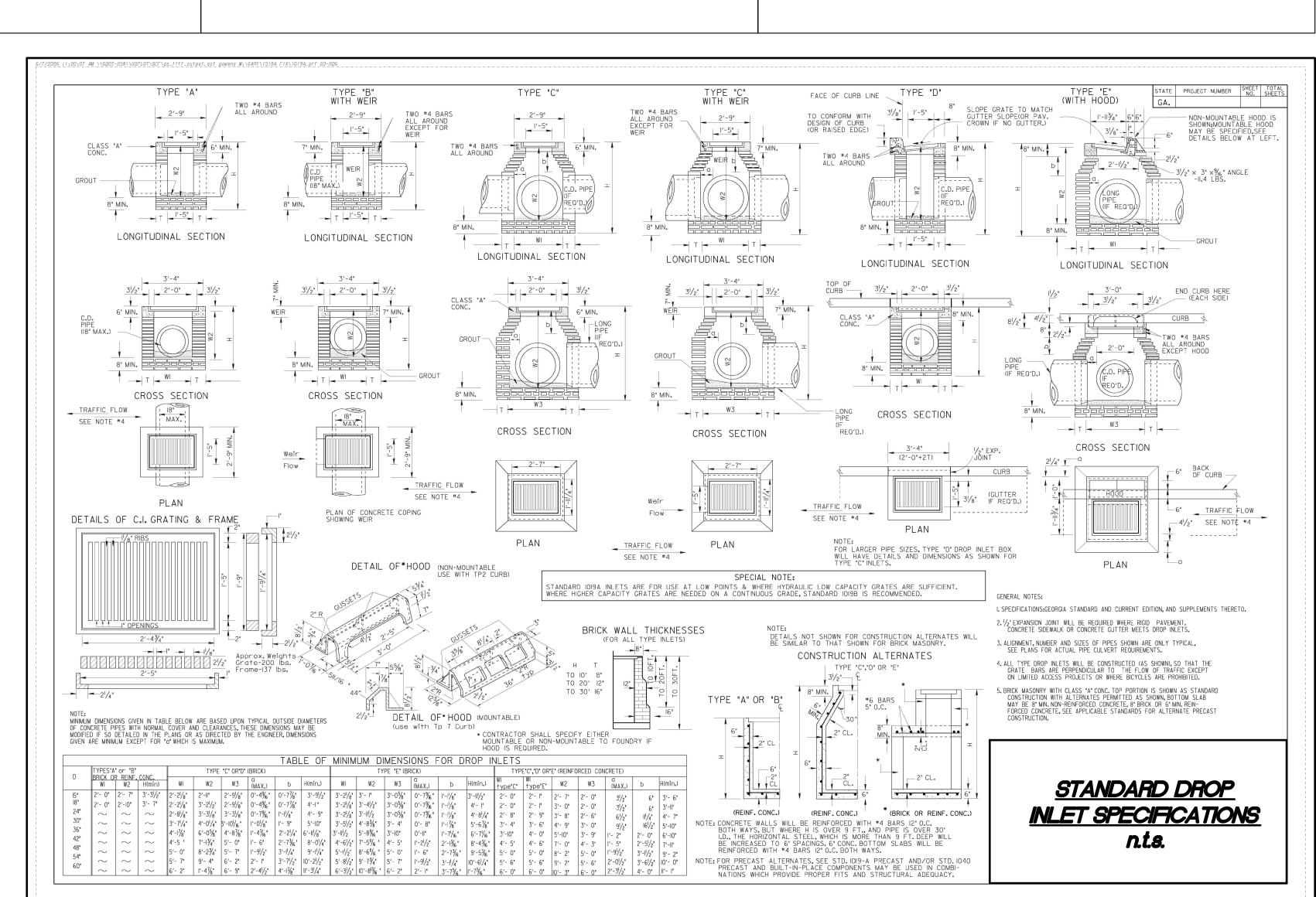






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JH	BHR		
JOB NO:	DATE:		
22-419	10/18/22		

STANDARD **DETAILS**



TYPE 3

TYPE 5

- CRUSHED STONE COMPACTED TO 90% PROCTOR



Commercial Real Estate Due Diligence Management 3465 South Arlington Rd Suite E#183 Akron, OH 44312 866.290.8121

ALTA/NSPS Land Title Survey

www.amnational.net

HARBINGER TOPO

SURVEYOR CERTIFICATION 8659 CARATOKE HIGHWAY HARBINGER, NC 27941 COUNTY OF CURRITUCK

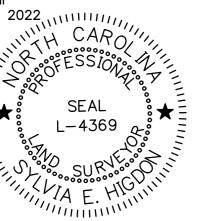
Surveyor's Certification

TO: HARBOR CITY TITLE INSURANCE AGENCY OF NC, INC;
MIDGARD SELF STORAGE HARBINGER NC, LLC, A DELAWARE LIMITED LIABILITY COMPANY; MIDGARD SELF STORAGE HARBINGER NC, LLC, A DELAWARE LIMITED LIABILITY CAND AMERICAN NATIONAL, LLC,
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum
Standard Detail Requirements for ALTA/NSPS Land
Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 6a, 6b, 7a, 7b1, 7b2, 7c, 8, 9, 10, 11a, 13, 14, 15, 16, 17, 18, 19 and 20 of Table A thereof.
The fieldwork was completed on NOVEMBER 9 2022.

I, SYLVIA E. HIGDON, certify that this plat was drawn under my supervision from an actual survey made under my supervision; that the boundaries not surveyed are clearly indicated as drawn from information found in referenced documents; that the ratio of precision as calculated is 1: 15,000+, that this plat was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, license number and seal this 15th day of NOVEMBER, 2022

NAME OF SURVEYOR: SYLVIA E. HIGDON LAND SURVEYOR NUMBER: L-4369
IN STATE OF: NORTH CAROLINA DATE OF PLAT OR MAP: NOVEMBER 15 2022

NETWORK REFERENCE # 20223124-1 CERTIFIED BY: SYLVIA E. HIGDON, P.L.S.
UNIT 136 WAYNESVILLE PLAZA → SUITE 3 → WAYNESVILLE, NC 28786
PHONE: (828) 456-5761
SURVEY UPDATES: surveys@amnational.net



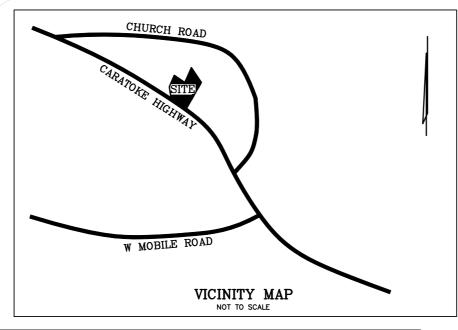
4199-1205-A

Legal Description

Tract 1:

All of Lot 1 of Harbinger Acres as recorded in Plat Cabinet F, Slide 53, Currituck County Public Registry, North Carolina

BEING THE IDENTICAL PROPERTY DESCRIBED IN TITLE COMMITMENT FILE NO.: 2205-2208 BY HARBOR CITY TITLE INSURANCE AGENCY OF NC, INC., COMMITMENT DATE: MAY 09, 2022 TRACT 2 IS NOT A PART OF THIS SURVEY.



LEGEND OF SYMBOLS & ABBREVIATIONS

AE - AERIAL EASEMENT E − ELECTRIC BOX © − ELECTRIC MH → − FIRE HYDRANT BL - BUILDING LINE BLDG - BUILDING - FIBER OPTIC MARKER ESMT - EASEMENT FND - FOUND - GAS METER - GAS VALVE DROP INLET - IRRIGATION VALVE - LIGHT POLE ■ - YARD INLET - CLEAN OUT POB — POINT OF BEGINNING POC — POINT OF COMMENCING MONITORING WELL - GAS LINE MARKER - POWER POLE - SERVICE POLE PS - PARKING SPACES R/W - RIGHT OF WAY SQ. FT. — SQUARE FEET UE — UTILITY EASEMENT SANITARY MANHOLE - SANITARY SEWER CLEAN OUT —×—CHAIN LINK FENCE —∘— BARBED WIRE FENCE - STORM MANHOLE CONCRETE D — TELEPHONE PEDESTAL COVERED CONCRETE - TRANSFORMER -P- OVERHEAD ELECTRIC LINES - TRAFFIC SIGNAL POLE -SS - SANITARY SEWER LINE - UNDERGROUND CABLE MARKER -//- WOOD FENCE -/- WROUGHT IRON FENCE WATER WELL - WATER METER C GUY WIRE ¼ – WATER VALVE - CURB -P- -REGULAR PARKING SPACE D - CATCH BASIN A – HANDICAP PARKING SPACE T - T - UNDERGROUND TELEPHONE — UP — UP — UNDERGROUND POWER

GENERAL NOTES

- 1. ALL BEARINGS AND STREET RIGHT OF WAYS ARE BASED ON RECORDED PLAT. 2. SURVEYOR DID NOT ABSTRACT PROPERTY. SURVEY BASED ON LEGAL DESCRIPTIONS SUPPLIED BY TITLE COMPANY. EASEMENTS, BUILDING LINES, ETC., SHOWN ARE AS IDENTIFIED BY FILE NO. 2205—2208 HARBOR CITY TITLE INSURANCE AGENCY OF NC, INC. EFFECTIVE MAY 09, 2022.
- 3. NOTHING IN THIS SURVEY IS INTENDED TO EXPRESS AN OPINION REGARDING OWNERSHIP OR TITLE.
- 4. THE WORD CERTIFY IS UNDERSTOOD TO BE AN EXPRESSION OF PROFESSIONAL JUDGMENT BY THE SURVEYOR, WHICH IS BASED ON HIS BEST KNOWLEDGE, INFORMATION AND BELIEF.

 5. SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
- 6. THIS SURVEY IS BEING PROVIDED SOLELY FOR THE USE OF THE CURRENT PARTIES AND THAT NO LICENSE HAS BEEN CREATED, EXPRESS OR IMPLIED, TO COPY THE SURVEY EXCEPT AS IS NECESSARY IN CONJUNCTION WITH THE ORIGINAL TRANSACTION.
- 7. ACREAGE CALCULATED BY COORDINATE COMPUTATION METHOD.
- 8. ALL PROPERTY CORNERS NOT DESCRIBED ARE COMPUTED "POINTS" ONLY. 9. PROPERTY IS SUBJECT TO ALL APPLICABLE EASEMENTS AND RIGHTS OF WAY OF RECORD.
- 10. ERROR OF CLOSURE MEETS OR EXCEEDS 1: 15,000 +. ALL DISTANCES ARE
- HORIZONTAL GROUND MEASURED. 11. THIS SURVEY MEETS THE REQUIREMENTS OF A CLASS "A" SURVEY.
- 12. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE, UNLESS OTHERWISE INDICATED. EXACT LOCATION TO BE DETERMINED BY OWNER. 13. THERE IS NO RECOVERABLE HORIZONTAL CONTROL WITHIN 2000'.
- 14. NORTH IS "PLAT NORTH" OF PLAT BOOK H @ PAGE 287. 15. THIS PLAT REPRESENTS A SURVEY OF THE DEED BOOK 1687 - PAGE 354.
- 16. THERE IS NO OBSERVABLE EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS WITHIN RECENT MONTHS. 17. THERE ARE NO OBSERVABLE CHANGES IN STREET RIGHT-OF-WAY LINES EITHER
- COMPLETED OR PROPOSED AT THE TIME OF THIS SURVEY AS SHOWN. 18. THERE IS NO OBSERVABLE EVIDENCE OF THE SITE BEING USED AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.
- 19. THERE IS NO OBSERVABLE EVIDENCE OF WETLANDS AS SHOWN.
- 20. DIRECT PEDESTRIAN AND VEHICULAR SITE ACCESS IS PROVIDED FROM THE WEST VIA CARATOKE HIGHWAY, A PUBLIC ROAD. 21. SITE ADDRESS IS POSTED AS 8659 CARATOKE HIGHWAY.
- 22. ALL STREETS, ROADS AND DRIVES WITHIN THE SUBJECT PARCEL ARE PRIVATE.
- 23. THERE IS NO OBSERVABLE EVIDENCE OF THE PROPERTY BEING USED AS A CEMETERY, BURIAL GROUNDS OR ISOLATED GRAVESITES.24. THERE IS NO OBSERVABLE EVIDENCE OF PARTY WALLS.
- 25. THE PROPERTY IS A MATHEMATICALLY CLOSED FIGURE WITH NO GAPS, STRIPS OR GORES. 26. THE LOCATION OF UTILITIES SHOWN HEREON ARE FROM OBSERVED EVIDENCE OF ABOVE GROUND APPURTENANCES ONLY. THE SURVEYOR WAS NOT PROVIDED WITH UNDERGROUND PLANS OR SURFACE GROUND MARKINGS TO DETERMINE THE LOCATION OF ANY SUBTERRANEAN USES.

ZONING INFORMATION ZONING INFORMATION FROM ZONING COMPLIANCE REPORT PROJECT NUMBER: 20221568 SITE 1 DATED: MAY 19 2022 SUBJECT PROPERTY IS ZONED: GB (GENERAL BUSINESS)

SUBJECT PROFERENT IS ZONED. OF (GENERAL BUSINESS)					
PER ZONING REPORT					
STATUS			STATUS		
ITEM	REQUIRED	OBSERVED	CONTACT INFO:		
PERMITTED USE	GENERAL BUSINESS	SELF/MINI STORAGE	CURRITUCK COUNTY ZONING DEP		
MIN. LOT AREA	40,000 SF	234,933.2 SF	SAVANNAH NEWBERN-PLANNER II		
MIN. FRONTAGE	125.0'	249.70'	(252) 232-3055		
MAX. BLDG COVERAGE	FAR 0.40	FAR 0.29	NOTES:		
MIN. SETBACKS FRONT	100.0' FROM CENTERLINE	102.5'	BECAUSE THERE MAT BE A NEE		
MIN. SETBACKS SIDE	15.0'	35.4'	FOR INTERPRETATION OF THE		
MIN. SETBACKS REAR	25.0'	34.0'	APPLICABLE ZONING CODES, WE		
MAX. BLDG HEIGHT	35.0'	19.4'	REFER YOU TO THE CURRITUCK		
PARKING REGULAR	1 PER 100 UNITS= 8	9	COUNTY PLANNING DEPT. FOR		
PARKING HANDICAP		1	ZONING LAWS AND APPLICABLE		
PARKING TOTAL		10	CODES.		

FLOOD NOTE:

By graphic plotting only, this property is in Zone(s) "X" of the Flood Insurance Rate Map,Community Panel No.

3720984700K ,which bears an effective date of **DECEMBER 21, 2018** and is NOT in a Special Flood Hazard Area.

ENCROACHMENT STATEMENT

PARKING	
REGULAR SPACES	9
HANDICAP SPACES	1
TOTAL SPACES	10

