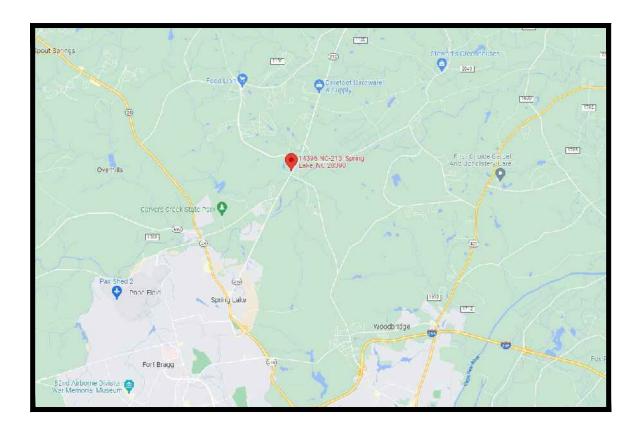
# MIDGARD SPRING LAKE -SELF STORAGE EXPANSION

14396 NC-210 S SPRING LAKE, NC 28390

PARCEL ID: 0513-75-4335.000 D.B. 4130, PG 881, HARNETT COUNTY

# HARNETT COUNTY PERMIT#:



VICINITY MAP

N.T.S.

# SCOPE OF WORK

THE PROPOSED PROJECT INVOLVES THE EXPANSION OF AN EXISTING SELF-STORAGE FACILITY IN SPRING LAKE. AN EXISTING DRIVE UP STORAGE UNIT AND AN EXISTING OFFICE WILL BE DEMOLISHED. IN THEIR PLACE, A NEW 2-STORY CLIMATE-CONTROLLED STORAGE FACILITY SHALL BE CONSTRUCTED, WITH PAVEMENT ACCESS ALONG 3 SIDES. AN EXISTING BILLBOARD ON-SITE IS TO BE REMOVED AS

# GENERAL NOTES:

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

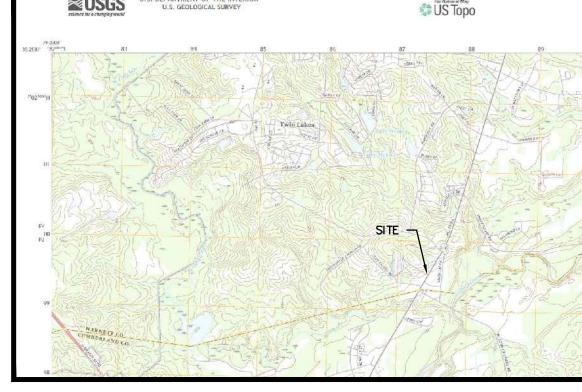
- CAUSE THE WORK TO BE COMPLETED PER FEDERAL, STATE AND LOCAL CODES DURING ALL PHASES OF THE PROJECT.
- 2. VERIFY THE EXISTING CONDITIONS ON WHICH THE PROJECT DESIGNS (ALL PHASES) ARE BASED AND BECOME FAMILIAR WITH ALL NECESSARY INFORMATION, WHETHER ON THE SUBJECT TRACT OR ADJACENT PROPERTIES. IF UNKNOWN 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"
  SERVICES
- D. PROPER SHORING AND BRACING SYSTEMS SHALL BE UTILIZED FOR ALL EXACTIONS AT ALL TIMES. COMPLETELY FILL ALL EXCAVATIONS AT THE END OF EACH DAY.
- 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

APPROPRIATE MEASURES HAVE BEEN PUT INTO PLACE.

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



<u>USGS QUAD MAP</u>

N.T.S.



AERIAL MAP

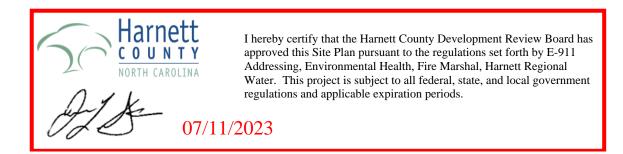
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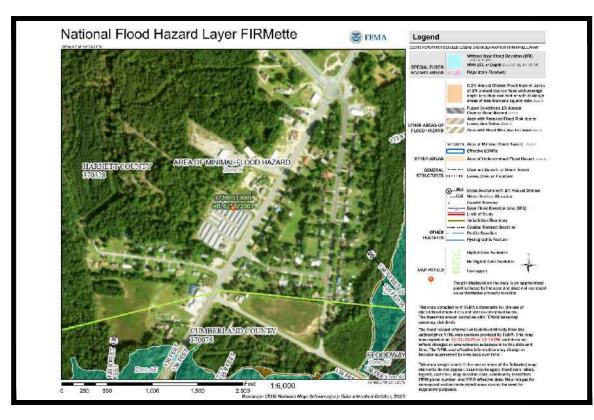
# SHEET INDEX

SITE D	DATA
LOCAL JURISDICTION	HARNETT COUNTY
PRIMARY PARCEL ID	0513-75-4335.000
ZONING DESIGNATION	СОММ
OVERLAY DISTRICT	N/A
TOTAL PROPERTY ACREAGE	±5.07 ACRES
TOTAL DISTURBED ACREAGE	0.85 ACRES
PROPOSED EXPANSION	2-STORY CLIMATE CONTROLLED STORAGE (±11,400-SF FOOTPRINT)
MIN. LOT SIZE	30,000-SF
MIN. LOT WIDTH	100 FEET
MAX. BUILDING HEIGHT	35 FEET
EXISTING IMPERVIOUS %	88%
PROPOSED IMPERVIOUS %	87%
FRONT BUILDING SETBACK	35'
SIDE BUILDING SETBACK	0' / 20' IF ADJACENT TO RESIDENTIAL
REAR BUILDING SETBACK	25'

PARKING SUMMARY			
	UNIT	REQUIRED	PROVIDED
OFFICE	300-SF	1	4
REQUIREMENTS BASED ON:  • OFFICE: 1/300-SF			

С	100	COVER SHEET
	2200 2201	SITE PLAN PHOTOMETRIC PLAN
C	300	GRADING & DRAINAGE PLAN/PROFILES
C	2400	OVERALL UTILITY PLAN/PROFILE
C	2500 2501 2502 2503	EROSION & SEDIMENT CONTROL NOTES DEMO + INITIAL PHASE E+S CONTROL INTERMEDIATE PHASE E+S CONTROL PLAN FINAL PHASE E+S CONTROL PLAN
C C C	2601 2602 2603 2604 2605 2606	E+S CONTROL BEST MANAGEMENT PRACTICES STANDARD DETAILS STANDARD DETAILS
L	.S-1 .S-2 S-1	LANDSCAPE PLAN LANDSCAPE DETAILS & NOTES ALTA/NSPS LAND TITLE SURVEY





# <u>FEMA MAP</u>

N.T.S.

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 3720051300L, HARNETT COUNTY 370328.

# 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







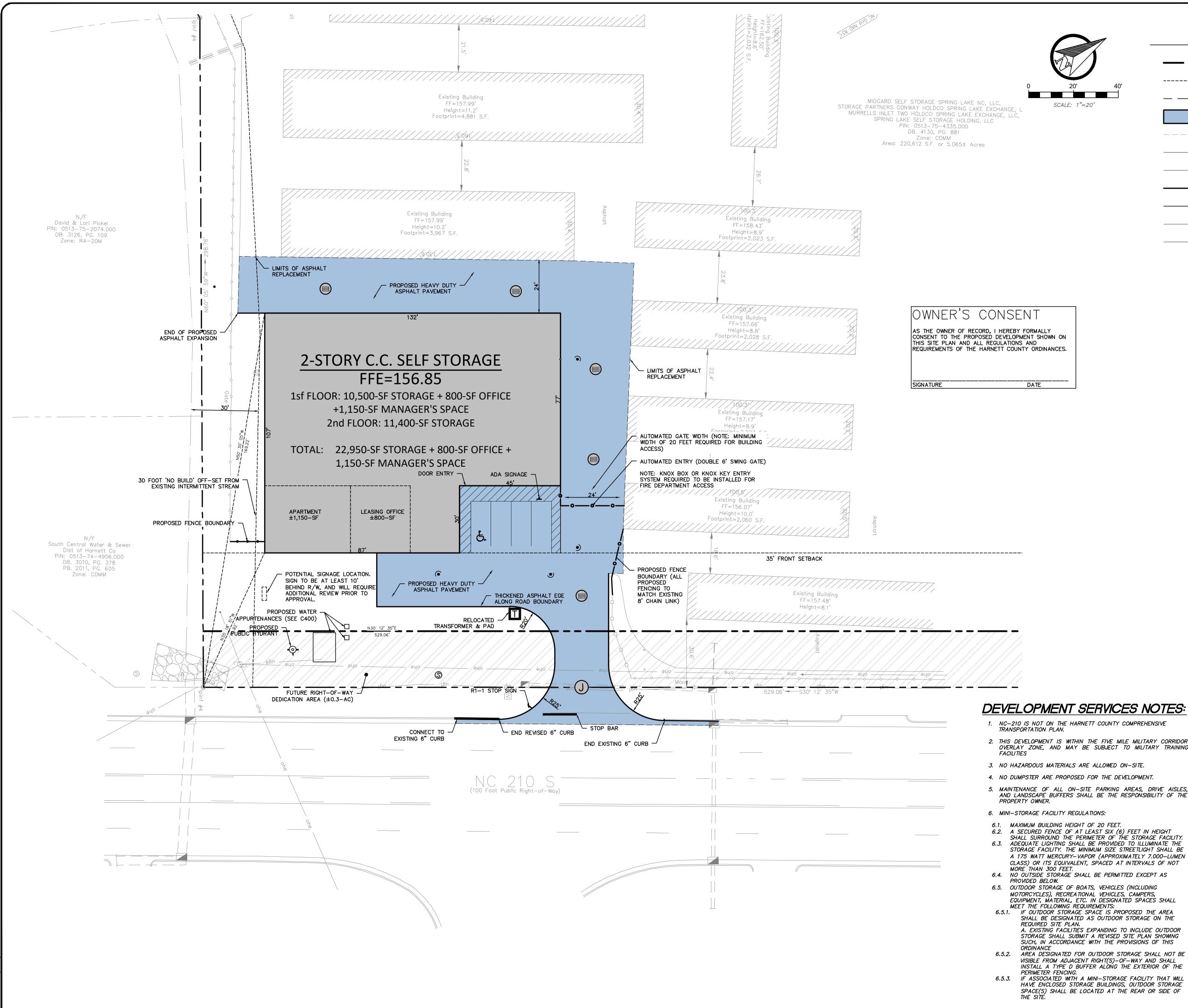


MIDGARD SELF STORAGE FACILTY SPRING LAKE, NC
ISSUED FOR: CONCEPT
JURSIDICTION: HARNETT COUNTY
I OCATION: 14396 NC 210 S.

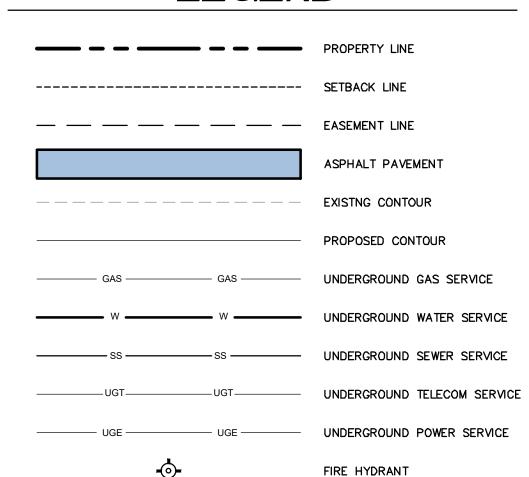
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JOB NO: 22-376	DATE: 06/01/23





# LEGEND



SITE D	DATA
LOCAL JURISDICTION	HARNETT COUNT
PRIMARY PARCEL ID	0513-75-4335.00
ZONING DESIGNATION	СОМІ
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TOTAL PROPERTY ACREAGE	±5.07 ACRE
TOTAL DISTURBED ACREAGE	0.85 ACRE
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MIN. LOT SIZE	30,000-S
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MAX. BUILDING HEIGHT	35 FEE
EXISTING IMPERVIOUS %	88
PROPOSED IMPERVIOUS %	87:
FRONT BUILDING SETBACK	38
SIDE BUILDING SETBACK	0' / 20' IF ADJACEN TO RESIDENTIA
REAR BUILDING SETBACK	2!

PARKIN	G SL	<i>IMM</i>	ARY
	UNIT	REQUIRED	PROVIDED
OFFICE	300-SF	1	4
REQUIREMENTS BASE	D ON:		
• OFFICE: 1/300-	SF		

### SITE NOTES:

- 1. NC-210 IS NOT ON THE HARNETT COUNTY COMPREHENSIVE
- 2. THIS DEVELOPMENT IS WITHIN THE FIVE MILE MILITARY CORRIDOR OVERLAY ZONE, AND MAY BE SUBJECT TO MILITARY TRAINING
- 3. NO HAZARDOUS MATERIALS ARE ALLOWED ON-SITE.
- 4. NO DUMPSTER ARE PROPOSED FOR THE DEVELOPMENT.
- 5. MAINTENANCE OF ALL ON-SITE PARKING AREAS, DRIVE AISLES AND LANDSCAPE BUFFERS SHALL BE THE RESPONSIBILITY OF THE
- 6. MINI-STORAGE FACILITY REGULATIONS:
- 6.1. MAXIMUM BUILDING HEIGHT OF 20 FEET.
- SHALL SURROUND THE PERIMETER OF THE STORAGE FACILITY. ADEQUATE LIGHTING SHALL BE PROVIDED TO ILLUMINATE THE
- A 175 WATT MERCURY-VAPOR (APPROXIMATELY 7.000-LUMEN CLASS) OR ITS EQUIVALENT, SPACED AT INTERVALS OF NOT
- 6.4. NO OUTSIDE STORAGE SHALL BE PERMITTED EXCEPT AS
- 6.5. OUTDOOR STORAGE OF BOATS, VEHICLES (INCLUDING MOTORCYCLES), RECREATIONAL VEHICLES, CAMPERS, EQUIPMENT, MATERIAL, ETC. IN DESIGNATED SPACES SHALL
- MEET THE FOLLOWING REQUIREMENTS: 6.5.1. IF OUTDOOR STORAGE SPACE IS PROPOSED THE AREA SHALL BE DESIGNATED AS OUTDOOR STORAGE ON THE A. EXISTING FACILITIES EXPANDING TO INCLUDE OUTDOOR STORAGE SHALL SUBMIT A REVISED SITE PLAN SHOWING
- SUCH, IN ACCORDANCE WITH THE PROVISIONS OF THIS 6.5.2. AREA DESIGNATED FOR OUTDOOR STORAGE SHALL NOT BE VISIBLE FROM ADJACENT RIGHT(S)-OF-WAY AND SHALL
- 6.5.3. IF ASSOCIATED WITH A MINI-STORAGE FACILITY THAT WILL HAVE ENCLOSED STORAGE BUILDINGS, OUTDOOR STORAGE SPACE(S) SHALL BE LOCATED AT THE REAR OR SIDE OF

- 1. COMPLETION OF ALL WORK SHALL BE IN ACCORDANCE THESE PLANS, SPECIFICATIONS, AS WELL AS, WITH FEDERAL, STATE AND LOCAL REGULATIONS. DEVIATION FROM THESE MAY CAUSE THE PROJECT TO BE UNACCEPTABLE.
- PROJECT TO BE DELIVERED IN ACCORDANCE WITH AMERICANS WITH DISABILITY ACT (ADA) PER FEDERAL, STATE AND LOCAL CODES.
- 3. PROJECT TO BE DELIVERED IN ACCORDANCE WITH THE UNIFORM TRAFFIC CONTROL MANUAL (MUTCD), ASHTO, AS WELL AS STATE
- AND LOCAL REGULATIONS. ARCHITECTURAL PLANS ARE TO GOVERN IN THE AREA WITHIN 5' OF THE BUILDING ENVELOPE. THIS IS TO INCLUDE, BUT NOT LIMITED, TO STEPS, STOOPS, SIDEWALKS, RAMPS, HANDRAILS, ETC.
- SITE CONTRACTOR IS RESPONSIBLE FOR ALL WORK OUTSIDE OF THIS ENVELOPE. 5. 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. CONTRACTOR IS RESPONSIBLE TO PROVIDING ALL AS—BUILTS AND
- OTHER CERTIFICATIONS IN ORDER TO CAUSE THE ACCEPTANCE OF THE PROJECT BY THE CLIENT AND RELEASE OF A CERTIFICATE OF
- 7. CONTRACTOR TO 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 ENGINEER.
- ALL EASEMENTS REQUIRED TO COMPLETE THE WORK, BUT NOT PROVIDED BY THE CLIENT, ARE THE RESPONSIBILITY OF THE
- 9. THE CONTRACTOR SHALL DELIVER THE PARKING LOT PAINTING AND STRIPING WITH A MINIMUM OF TWO COATS OF PAINT PER PROJECT SPECIFICATIONS.



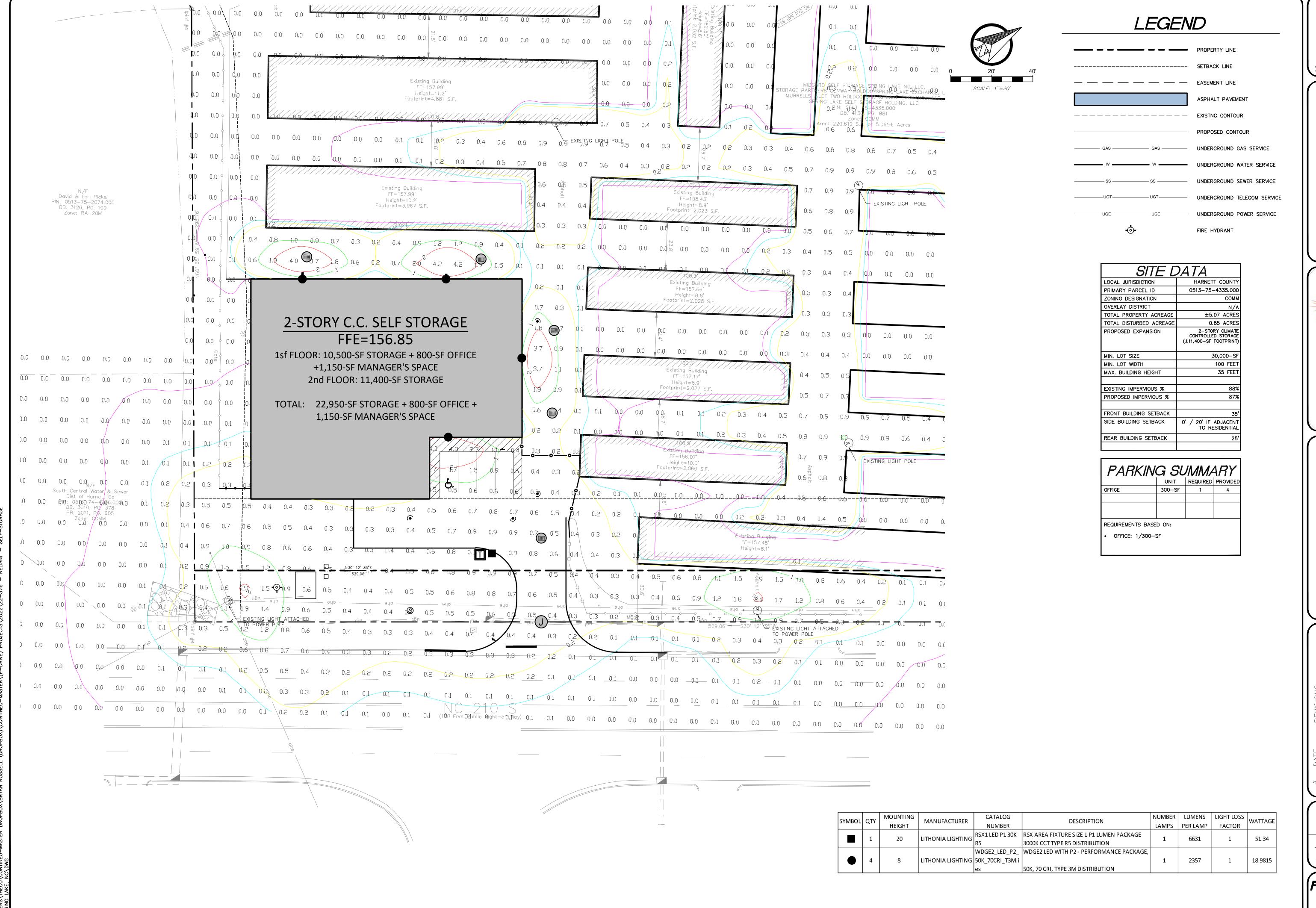
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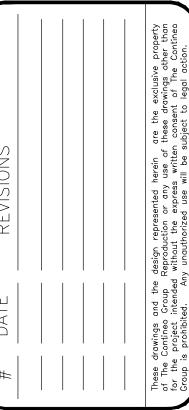
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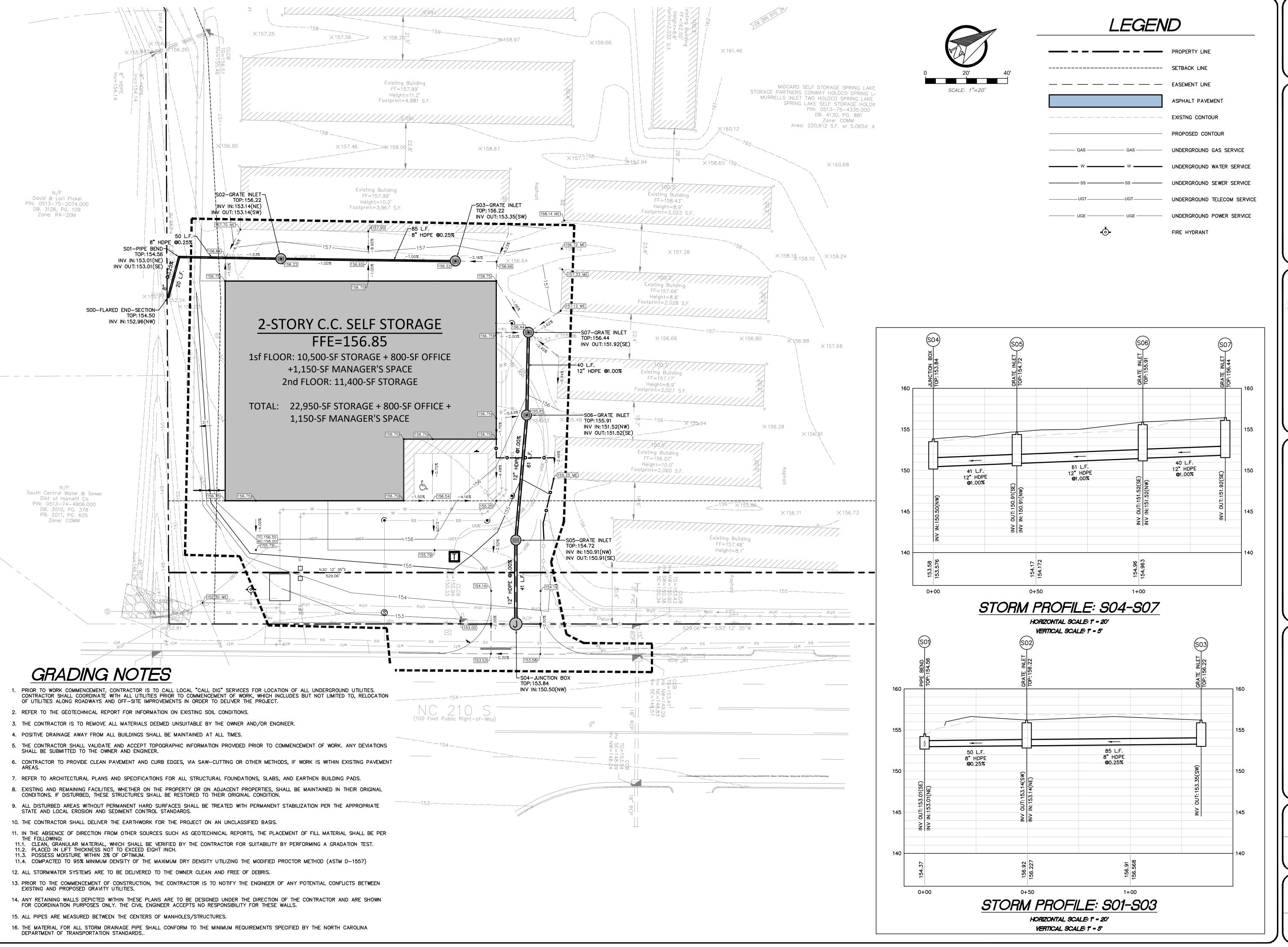
IDGARD SELF STORAGE FACILTY
SPRING LAKE, NC

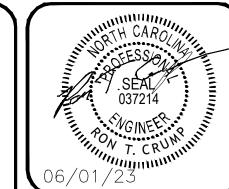
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SIDICTION: HARNETT COUNTY
ATION: 14396 NC 210 S.



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PHOTOMETRIC PLAN



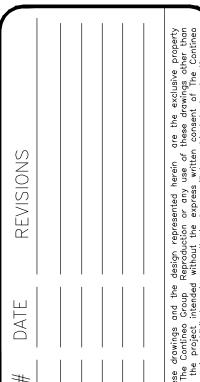


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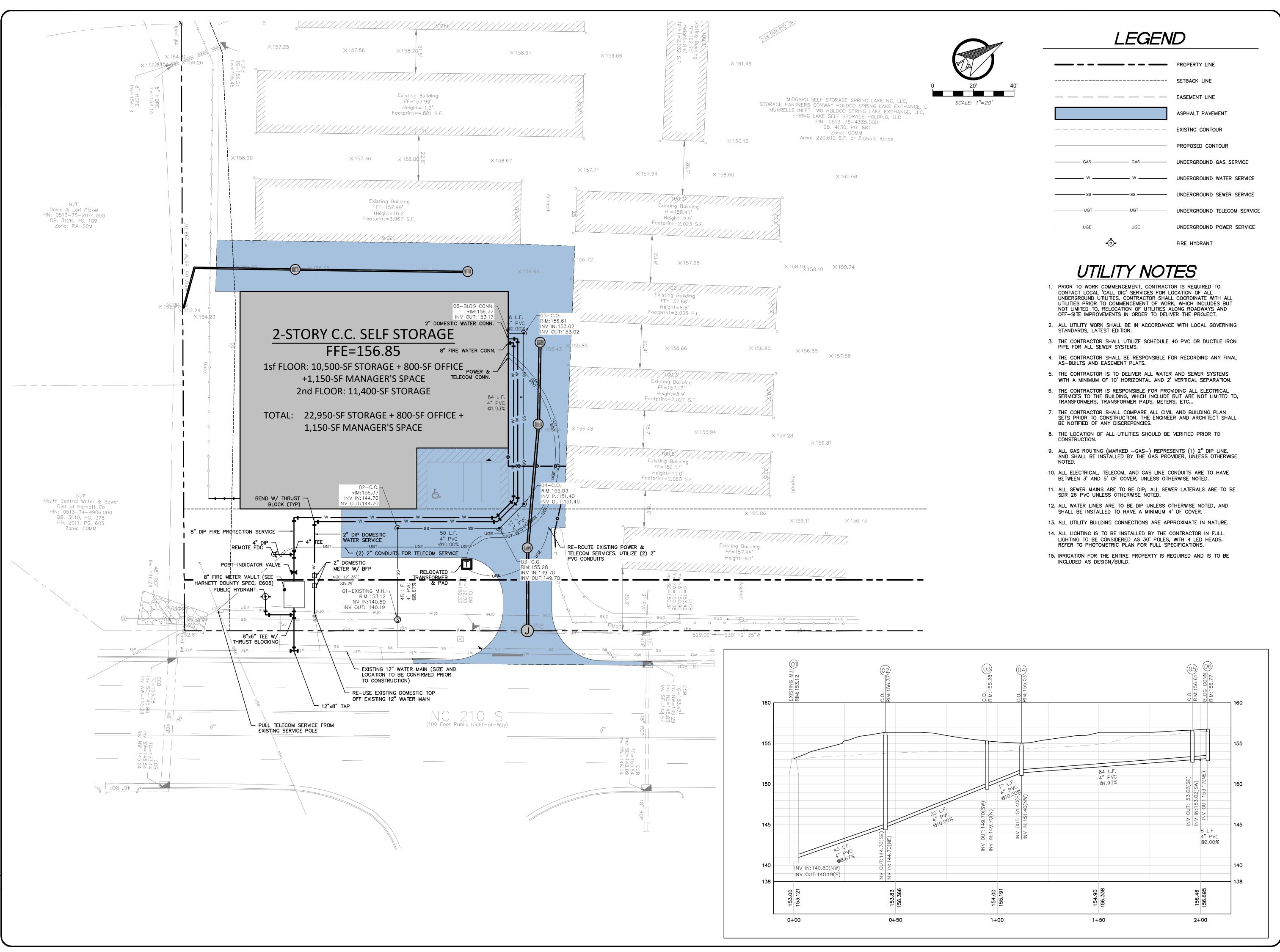


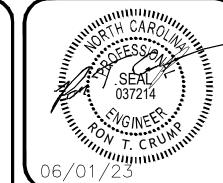
MIDGARD SELF STORAGE FACILTY
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JOB NO:	DATE:
22-376	06/01/23

GRADING +
DRAINAGE
PLAN
SHEET C300





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755 COMMERCE DRIVE
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Real Estate Management, LLC 1146 CANTON ST, ROSWELL, GA 30075 CONTACT: MATT GARCIA

IDGARD SELF STORAGE FACILTY
SPRING LAKE, NC

ED FOR: CONCEPT
SIDICTION: HARNETT COUNTY
ATION: 14396 NC 210 S.

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22-376 06/01/23

UTILITY
PLAN

EET C400

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.

### ADJACENT 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 .

- 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.
- 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.
- 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

### <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 MATERIALS 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 HAZĀRDOUS MĀTĒRIALS 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, PAINTS, 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.

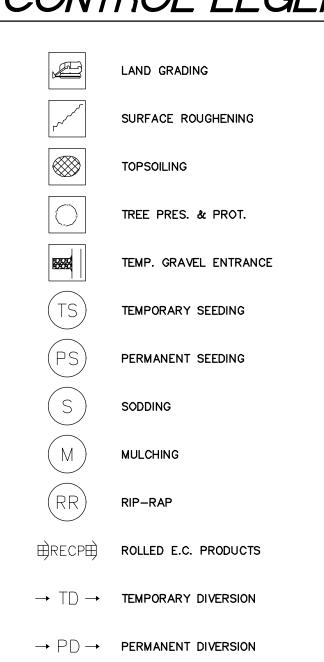
# POST CONSTRUCTION BMPs

- MAINTAIN LANDSCAPE AREAS.
- 2. PROVIDE PETROLEUM SPILL CLEAN-UP KIT ON SITE AT ALL TIMES.
- 3. KEEP REFUSE COLLECTED WITHIN THE APPROPRIATE CONTAINERS.
- 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. ÉXCESS 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



B GL B	GRASS-LINED CHANNEL
	OUTLET STABILIZATION
	TEMP. EXC. INLET PROT
<u> </u>	

CLOTH INLET PROT.

DUST CONTROL

TEMP. SEDIMENT TRAP

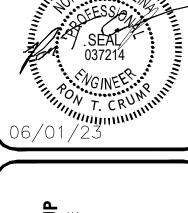


→ ► CHECK DAM

### ENGINEER'S ANTICIPATED ACTIVITY SCHEDULE MO.1 MO.2 MO.3 MO.4 MO.5 MO.6 *ACTIVITY* INSTALL SEDIMENT CONTROL DEVICES DEMOLITION, CLEARING IAND GRADING DEMOLITION, CLEARING AND GRADING STORM DRAIN INSTALLATION SANITARY SEWER INSTALLATION GRASS (TEMP.) GRASS (PERM.) UTILITY INSTALLATION MAINTAIN EROSION CONTROL BLDG. CONST. *AND PAVING* LANDSCAPING 12 | CLEAN UP 1.3 | SOLID WASTE

DISPOSAL 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 MARCH 2023



ONTINEO GROUP COMMERCE DRIVE





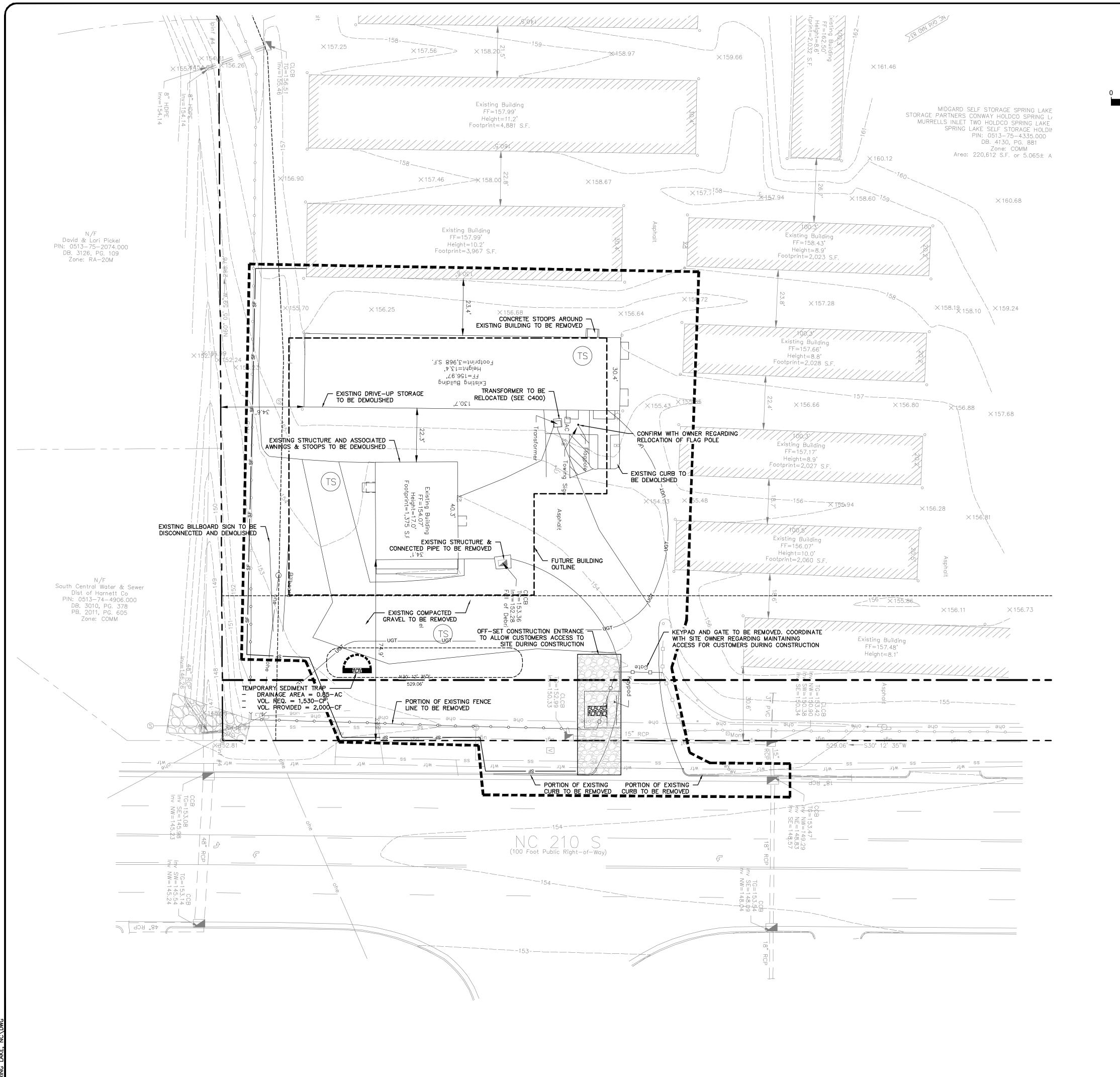
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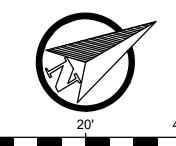
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**EROSION** +SEDIMENT CONTROL NOTES



# E+S CONTROL LEGEND



SCALE: 1"=20'

LAND GRADING







TOPSOILING

SURFACE ROUGHENING

TREE PRES. & PROT.



TEMP. GRAVEL ENTRANCE



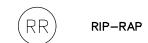
TEMPORARY SEEDING



SODDING



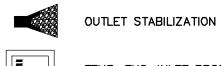
MULCHING



ROLLED E.C. PRODUCTS

 $\rightarrow \top \square \rightarrow \text{TEMPORARY DIVERSION}$  $\rightarrow \square \longrightarrow \square$  PERMANENT DIVERSION

⊞ GL ⊞ GRASS—LINED CHANNEL



TEMP. EXC. INLET PROT.

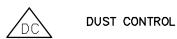


CLOTH INLET PROT.



— SF— SILT FENCE

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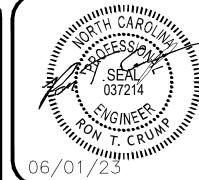


# **DEMOLITION NOTES:**

- 1. ALL MATERIALS FROM DEMOLITION SHALL BE REMOVED FROM THE SITE BY THE GENERAL CONTRACTOR OR SUBCONTRACTOR UNLESS APPROVED FOR REUSE ON SITE BY THE STRUCTURAL, GEOTECHNICAL ENGINEERS AND GOVERNING AGENCIES.
- 2. REMOVAL OF THE EXISTING STRUCTURES SHALL BE AS REQUIRED FOR THE PROJECT.
  THE MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN A PROPER AND LEGAL MANNER PER FEDERAL, STATE, AND OR LOCAL LAWS AND ORDINANCES.
- 3. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED. THOSE MATERIALS SHALL BE REMOVED AND DISPOSED OF IN A MANNER AS APPROVED BY ALL GOVERNING AGENCIES AND IN A LANDFILL OR DISPOSAL FACILITY LICENSED TO ACCEPT HAZARDOUS MATERIAL.
- 4. PREDEMOLITION PHOTOGRAPHS SHALL BE TAKEN BY THE CONTRACTOR FOR OWNER, SHOWING EXISTING CONDITIONS OF THE SITE AND ADJOINING BUILDINGS TO REMAIN.
  PHOTOS SHALL INCLUDE DAMAGE TO FINISH SURFACES THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY DEMOLITION OPERATIONS.
- 5. EXISTING STRUCTURES TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE INCURRED DURING THE CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL GOVERNING AGENCIES.
- MUD, DIRT, GRAVEL AND LOOSE MATERIALS DUMPED FROM THIS SITE ONTO OTHER PROPERTIES. THE CONTRACTOR MUST CLEAN OR PICK UP DAILY IF NECESSARY. THE CONTRACTOR SHALL TRY TO REDUCE AIRBORNE DUST THROUGH OUT THE ENTIRE JOB. THIS MAY BE DONE BY WATERING DOWN AREAS AFFECTED BY THIS WORK.

6. IT IS THE RESPONSIBILITY OF CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL

- 7. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL DEVICES AS REQUIRED DURING DEMOLITION.
- 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER AND ALL UTILITY COMPANIES AND DEPARTMENTS 72 HOURS, OR AS REQUIRED, BEFORE DEMOLITION IS TO START, TO VERIFY ANY UTILITIES THAT MAY BE PRESENT ON SITE. ALL VERIFICATIONS, LOCATIONS, SIZE AND DEPTHS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES OR DEPARTMENTS. WHEN EXCAVATING AROUND OR OVER UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THE UTILITY MAY BE PRESENT DURING THE EXCAVATION TO INSTRUCT AND OBSERVE DURING THE PROCESS. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING DEMOLITION OPERATIONS. NO TRENCHES SHALL BE LEFT OPEN OVERNIGHT.
- 9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND PAY ALL FEDERAL, STATE, COUNTY, CITY AND LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED.
- 10. CONTRACTOR SHALL MAKE AN EFFORT TO SALVAGE ANY VEGETATION OR OTHER LANDSCAPING MATERIALS WHEN AND WHERE POSSIBLE. NOTIFY LANDSCAPE ARCHITECT AND OWNER OF RELOCATION AREA TO PREVENT ANY FUTURE ISSUES.
- 11. ALL ASPHALT AND CONCRETE CUTS SHALL BE SMOOTH, CLEAN AND IN STRAIGHT LINES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE MADE TO CONCRETE THAT IS TO REMAIN AS PART OF THE NEW DEVELOPMENT.









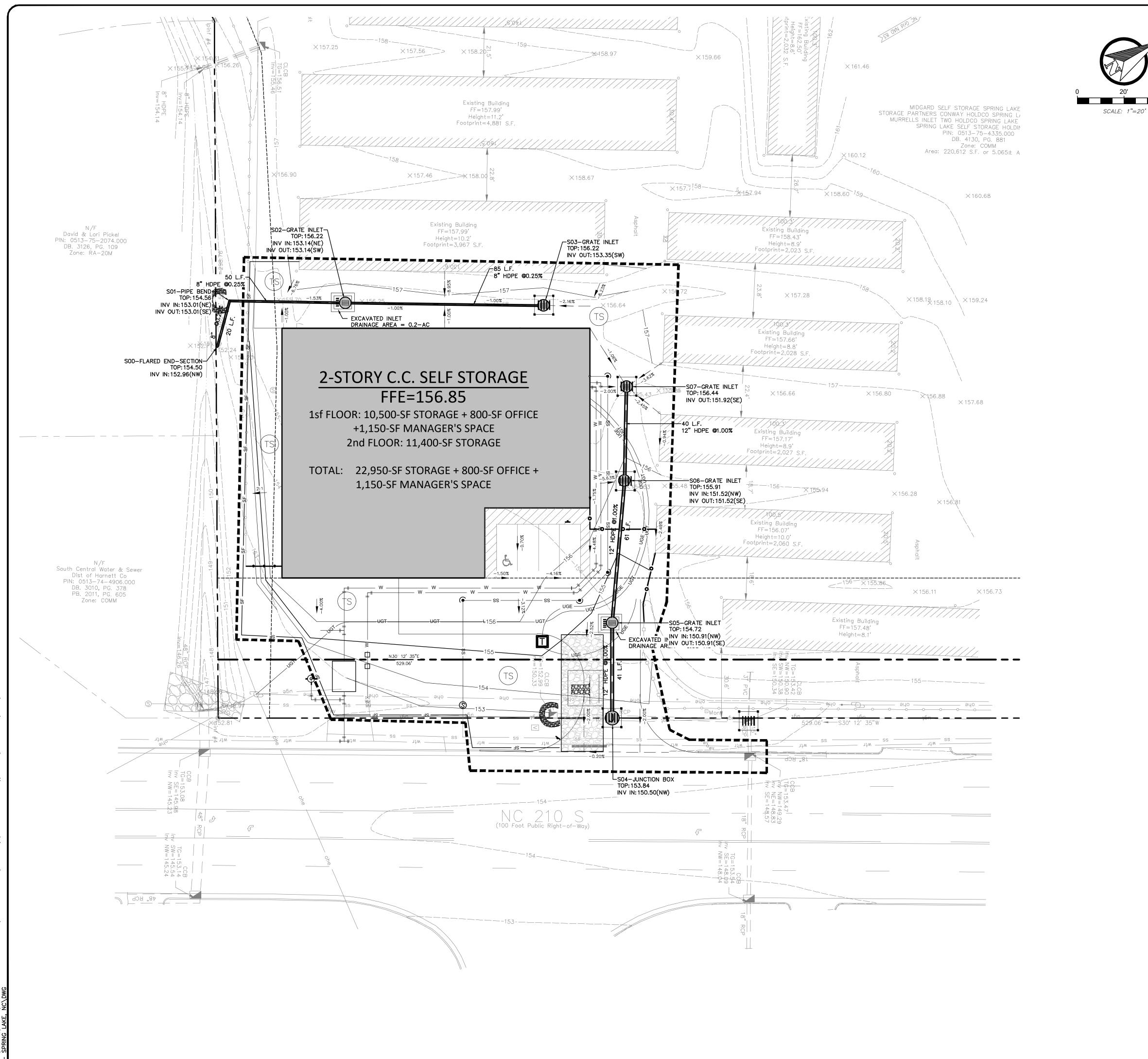


STORA; LAKE, ARD SELF S SPRING

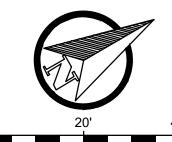
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INITIAL PHASE E+S CONTROL



# E+S CONTROL LEGEND



LAND GRADING



SURFACE ROUGHENING



TOPSOILING



TEMP. GRAVEL ENTRANCE

TREE PRES. & PROT.



TEMPORARY SEEDING

PERMANENT SEEDING





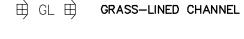


⊞RECP⊞ ROLLED E.C. PRODUCTS

MULCHING



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





TEMP. EXC. INLET PROT.

OUTLET STABILIZATION

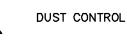


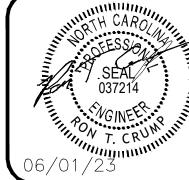
CLOTH INLET PROT.



→ ▶ → ▶ CHECK DAM

— SF— SILT FENCE









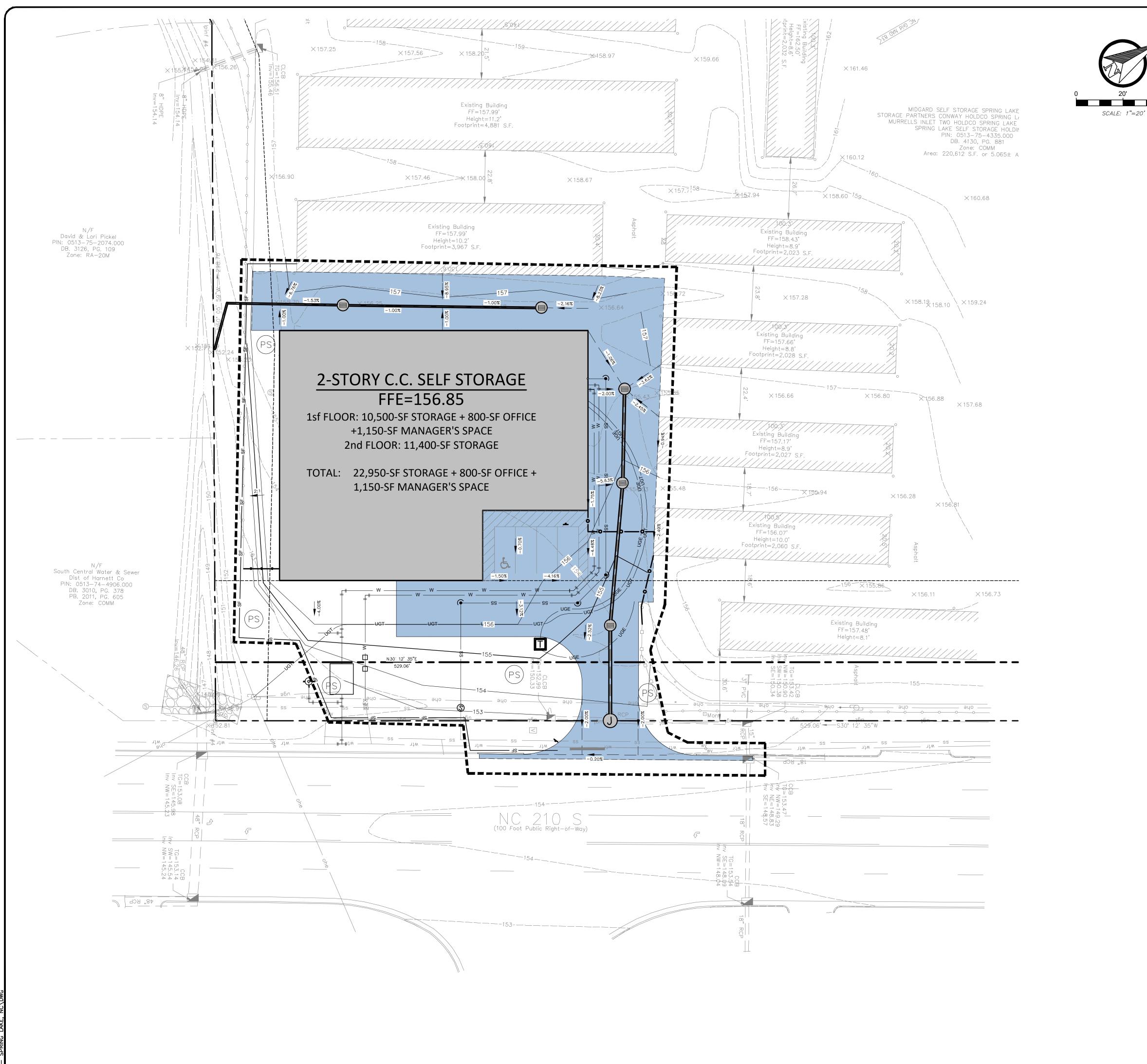




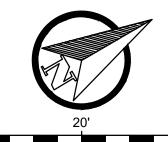
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E+S CONTROL



# E+S CONTROL LEGEND



LAND GRADING



SURFACE ROUGHENING

TREE PRES. & PROT.



TOPSOILING



TEMP. GRAVEL ENTRANCE



TEMPORARY SEEDING

PERMANENT SEEDING





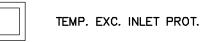
⊞RECP⊞ ROLLED E.C. PRODUCTS

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

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⊞ GL ⊞ GRASS-LINED CHANNEL

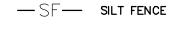


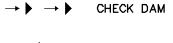


DUST CONTROL



TEMP. SEDIMENT TRAP

















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E+S CONTROL



Requirements

**Minimum** Seedbed preparation: lime and fertilizer incorporated 4-6 inches, where conditions allow, steep slopes roughened by tracking.

> Plant selection: temporary species appropriate for season and region (Figure 6.10b).

> Seed quality: North Carolina certified seed, tested within the past 9

■ Mulch: effective mulch such as clean grain straw, tacked and/or tied down with netting to protect seedbed and encourage plant growth (reference Practice 6.14, Mulching).

6.11

6.10.1

Seedbed Apply ground agricultural limestone, unless a soil test indicates pH 6.0 or greater. If a soil test is not available, use a rate based on soil Preparation

> Coarse textured: 1 - 1 1/2 tons/acre Fine textured: 2 - 3 tons/acre

Apply a complete fertilizer at rates recommended by soil tests. In the absence of soil test, use the following as a guide:

Grasses: 800-1200 lb/acre of a 10-10-10 analysis fertilizer (or equivalent) Grass-legume mixtures: 800-1200 lb/acre of a 5-10-10 fertilizer (or equivalent)

 Incorporate lime and fertilizer to a depth of 4-6 inches by disking or chiseling on slopes up to 3:1. Do not mix lime and fertilizer prior to application.

Fill in depressions that can collect water. Where moving is planned,

continue tillage until a uniform, finely pulverized seedbed is achieved. Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Tall fescue (below 2500 Tall fescue (low maint.) Tall fescue (high maint. Tall fescue mixture Hybrid Bermudagrass Common Bermudagras

Figure 6.11b Calendar for permanent seeding recommendations by region.

6.11.3

Table 6.11c High-maintenance Mixtures — Mountains Seeding No.1 Site lb/acre Soils with average or Kentucky bluegrass better moisture retention (three improved varieties) (Shady locations: substitute 40% by weight fine fescue — hard, red or chewings.) 5M & 6M Full sun or semi-shade Tall fescue blend including drought-prone (two or three turf types) soils — minimum-care Kentucky bluegrass (50:50 mix of two

Permanent Seeding 6

6.11.8

<sup>1</sup> Seeding numbers refer to seeding specifications in the N.C. Erosion and Sediment Control Planning and Design Manual (1988); "M" indicates Mountain region.

improved varieties)

Table 6.11d Low-maintenance Mixtures — Piedmont Seeding No.1 Site lb/acre Tall fescue Steep slopes or poor Sericea lespedeza Kobe lespedeza Nurse plant3 (Eastern Piedmont: add 25 lb/acre Pensacola Bahiagrass or 10 lb/acre common Bermudagrass.) Tall fescue Gentle slopes, average soil Sericea lespedeza<sup>2</sup> Kobe lespedeza Nurse plant3 (Fall plantings: Kobe is best overseeded in late winter.) Tall fescue Channels

Nurse plant<sup>3</sup> Seeding numbers refer to seeding specifications in the N.C. Erosion and Sediment Control Planning and Design Manual (1988); "P" indicates Piedmont.

<sup>2</sup> After Aug. 15 use unscarified seed for sericea lespedeza. <sup>9</sup> Between May 1 and Aug. 15, add 10 lb/acre German millet or 15 lb/acre Sudangrass. Prior to May 1 or after Aug. 15, add 40 lb/acre rye grain.

Installation Seedbed Apply soil amendments evenly and incorporate to a depth of 4-6 inches, Preparation if possible. Follow recommendations of soil tests or apply 2000 lb/acre ground agriculture limestone and 700-1000 lb/acre 10-10-10 fertilizer.

Loosen surface just before broadcasting seed (reference Practice 6.11, Permanent Seeding). Plant Select an appropriate temporary species based on the calendar in Figure 6.10b. Avoid seeding in December or January. If necessary to seed at Selection

these times, use rye grain and a securely tacked mulch.

J F M A M J J A S O N D Mountains Above 2500 Below 2500' Piedmont Coastal Plain

Recommended Plantings Legend

50 lb/acre Korean Lespedeza with 120 lb/acre Rye Grain ..... Kobe Lespedeza with . 50 lb/acre 120 lb/acre Rye Grain ... 3 German Millet or. 40 lb/acre 50 lb/acre Sudangrass .. 40 lb/acre 4 German Millet .. 5 Rye Grain .. 120 lb/acre

Figure 6.10b Calendar for scheduling temporary seedings.

Permanent Seeding 6

6.10.2

6.10.3

Seeding Seeding dates: Use the seeding calendar shown in Figure 6.11b. As you vary from the recommended dates, these probability of failure increases rapidly. If scheduled outside these dates, use temporary seeding until preferred date for permanent seeding (reference Practice 6.10, *Temporary* 

> tains, Piedmont, Coastal Plain), soil characteristics, slope, and level of maintenance. Table 6.11a lists characteristics and applications of grasses and legumes used in the mixtures. Inoculate legume seed to ensure good growth. Cut-and-fill soils are like-

Select a seeding mixture from Tables 6.11b-g based on region (Moun-

ly to be deficient in the appropriate bacteria. Seeding rates in Tables 6.11b-g are based on poor growing conditions

that typically exist, and a need for dense growth. Higher seeding rates will not substitute for good seedbed preparation. Apply seed uniformly, using a cyclone seeder, drop-type spreader, drill, cultipacker seeder, or hydroseeder. When using a drill seeder, plant rye

or other grains not more than 1 inch deep, grasses and legumes not more than 1/2 inch. Calibrate equipment in the field. Cover seed by raking chain-dragging, or dragging a brush or mat, then firm the soil lightly with a roller. Seed can also be covered with hydromulched wood fiber and tack. Do not roll hydro-mulched seed.

Sprigging Sprigs are sold by the bushel, and can be broadcast or planted in furrows using a vegetable transplanter. Make furrows 4-6 inches deep and 2 ft apart. Place sprigs about 2 ft apart

with one end at or above surface. If broadcast, select rate from Table 6.11g. Press into top 1/2-2 inches of soil with a cultipacker or mulch crimper.

Mulching Cover area evenly with approved mulch (75% cover minimum). Crimp, tack, or tie mulch with netting. Mulching is extremely important for successful seeding (reference Practice 6.14, Mulching).

6.11.4

6.11

Table 6.11e High-maintenance Mixtures — Piedmont Plants Seeding No.1 Site Tall fescue Soils with average or better moisture (two turf types) retention— cool sites Kentucky bluegrass (two or more improved varieties) Tall fescue blend Dry soils, soils with physical limitations, (three or more or warm sites varieties — turf types or KY-31)

Seeding numbers refer to seeding specifications in the N.C. Erosion and Sediment Control Planning and Design Manual (1988); "P" indicates Piedmont region.

Table 6.11f Low-maintenance Mixtures — Coastal Plain

Well- to poorly-drained Tall fescue soils with good moisture Pensacola Bahiagrass Sericea lespedeza<sup>2</sup> Kobe lespedeza Nurse plant<sup>3</sup> (Poorly drained sites: omit sericea and increase Kobe to 30 lb/acre.) Dry to well-drained areas. Pensacola Bahiagrass Sericea lespedeza<sup>2</sup> Common Bermudagrass

Common Bermudagraass Seeding numbers refer to seeding specifications in the N.C. Erosion and Sediment Control Planning and Design Manual (1988); "CP" indicates Coastal Plair

German millet

(Bermudagrass may be replaced with 5 lb/acre centipedegrass.)

<sup>2</sup> From Sept. 1 to March 1, use unscarified seed for sericea lespedeza. Where a neat appearance is required omit sericea and increase Kobe to 40 lb/acre. <sup>3</sup> Between April 15 and Aug. 15, add 10 lb/acre German millet or 15 lb/acre Sudangrass. Prior to April 15 or after Aug. 15, add 40 lb/acre rye grain.

Apply seed evenly using a cyclone seeder, rotary-spreader, drop-spreader, cultipack seeder, or hydroseeder. Hand broadcasting is not recommended because it is difficult to achieve a uniform stand.

Cover broadcast seed by raking or by dragging a chain. Firm lightly with a roller or cultipicker.

When drill-seeding, plant small grains no more than 1 inch deep, and

ting. Netting is the most effective method on steep slopes and in channels

grasses and legumes no more than 1/2 inch deep. Mulch all seedings to reduce erosion and encourage seedling growth. Straw mulch is commonly used on gently sloping areas. Spread evenly at a rate of 2 tons/acre and anchor securely with tackifier, asphalt, or net-

**Common** Lime and fertilizer not incorporated to at least 4 inches—may be lost to runoff or remain concentrated near the surface where they may inhibit germination.

(reference Practice 6.14, Mulching).

■ Mulch rate inadequate or straw mulch not tacked down-results in poor germination or failure, and erosion damage. Repair damaged

and makes it difficult to establish a good cover of permanent vegeta-Seed not broadcast evenly or rate too low-results in patchy growth

Annual ryegrass used for temporary seeding-ryegrass reseeds itself

Maintenance Inspect within 6 weeks of planting to see if stands are adequate. Check for damage after heavy rains. Stands should be uniform and dense. Fertilize, reseed, and mulch damaged and sparse areas immediately. Tack or

Topdress fall plantings with 50 lb/acre nitrogen in February or March.

tie down mulch as necessary.

Common Inadequate seedbed preparation—a well tilled, limed, and fertilized seedbed is the most important step in vegetative establishment.

Points Unsuitable choice of plant materials—do not plant Bermudagrass in the fall, Kentucky bluegrass in the Coastal Plain, or annual ryegrass in a permanent seeding mixture.

Nurse crop rate too high in mixture-competes with perennial; limit rates to those shown in Tables 6.11b-g.

Seeding at the wrong time of year-consult Figure 6.11b. If timing is not right, use temporary seeding to stabilize soil until preferred seeding

Inadequate mulching—cover area evenly and tack or tie down well, especially on slopes, ridges, and in channels.

Maintenance Expect emergence of grasses within 4-28 days and legumes 5-28 days after seeding, with legumes following grasses. A successful stand should exhibit

vigorous dark green or bluish green seedlings-not yellow

uniform density, with nurse plants, legumes, and grasses well inter-

green leaves. Perennials should remain green throughout the summer, at least at the plant bases. For at least a year, inspect stands for erosion or die-out. Repair damaged,

bare, or sparse areas by filling any gullies, refertilizing, reseeding, and

Reseeding If plant cover is sparse or patchy, re-evaluate the choice of plant materials and quantities of lime and fertilizer. Depending on the condition of the stand, repair by overseeding or reseeding after complete seedbed preparation. If timing is bad, overseed with rye grain or German millet to thicken the stand until a suitable time for seeding perennials.

> If vegetation fails to grow, have the soil tested to determine whether acidity or nutrient deficiency is a problem.

6.11.5

Permanent Seeding

Table 6.11g High-maintenance Mixtures — Coastal Plain Seeding No.1 Site lb/acre Well- to poorly-drained Tall fescue blend soils with good moisture (two or three improved varieties) 200 lb 25 lb Rye grain Well-drained sandy loam Hybrid Bermudagrass 130-140 bu (Tifway or Tifway II) to sand 33 bu Well-drained, sandy loam Centipedegass (sprigs) to sand - minimum care 10-20 lb

<sup>1</sup> Seeding numbers refer to seeding specifications in the N.C. Erosion and Sediment Control Planning and Design Manual (1988); "CP" indicates Coastal Plain.

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PERMANENT SEEDING

6.11

Purpose To stabilize disturbed areas with vegetation for periods longer than 12 months (Figure 6.11a).

Figure 6.11a Permanent cover protects slopes after grading.

Minimum Surface roughening: slopes steeper than 3:1 should be roughened by Requirements

tracking, grooving, or furrowing.

■ Amendments: line and fertilizer, incorporated 4-6 inches where conditions allow (refer to Seedbed Preparation, below). Seed quality: North Carolina certified seed, tested within the past 9

■ Planting date: appropriate for region and species (Figure 6.11b).

Plants: recommended erosion control plants are listed in Table 6.11a. Select a seeding mixture from those shown in Tables 6.11b-g. ■ Mulch: 75% of the ground surface covered with approved material

■ General: inspect seeded areas 2-4 weeks after seeding. Repair and

reseed as necessary.

(reference Practice 6.14, Mulching).

Permanent Seeding 6

Fertilization Satisfactory establishment may require refertilizing the stand in the second growing season.

Do not fertilize cool season grasses in late May through July.

Grass that looks yellow may be nitrogen deficient.

■ Do not use nitrogen fertilizer if stand contains more than 20% le-

6.11.1

Tolerance, Maintenance, and Propagation Characteristics of Erosion Control Plants

					Re	egi	on		Dr	ain	age	P	lar	nting		То	lera	nce	Mai nar	
	Temporary	Permanent	Warm season	Cool season	Mountains	Piedmont	Coastal Plain	Dry	Well	Moder, well	Somewhat poor Poor		Seed	Sprigs/sod	Days to germination	Shade	Drought	Flooding	High	Low
Grasses								27				50			71				2)	
Bahiagrass															14-28					
Bermudagrass (common)												-1			21					
Bermudagrass (hybrid)															-					
Centipedegrass	1														28					
Fescue, tall															5-14		1 1			
Fescue, red				•											7-28		E at			
German millet <sup>2</sup>															4-14	1				
Kentucky bluegrass				•							•			•	10-28		(9	•		
Redtop															5-10		•	•		
Rye grain				•							•				4-7					
Sudangrass						•	•		•	•	•		•		4-10					•
Legumes																				
Crown vetch															14-21					
Kobe lespedeza															5-14					
Korean lespedeza															5-14					
Sericea lespedeza															7-28					

Number of days required for majority of seeds to germinate under favorable conditions. 2 Also "Foxtail millet."

6.11.6

Permanent Seeding

Definitions Certified seed: seed that has been inspected and tested according to official North Carolina standards and is labeled with information on germination, purity, and contaminating species.

> High maintenance: (as used in Tables 6.11b-g) plantings that receive frequent mowing, fertilizer, and pest control.

> Hulled seed: seed that has its outer protective covering, or hull, removed to speed germination. It is also called "clean" seed. Hulled seed is not always scarified (see below). Inoculant (for legume seed): nitrogen-fixing bacteria, sold in airtight

> plastic bags. The bacteria colonize roots of the legume, providing nitrogen to the plant and soil. Legume: members of the pea family such as lespedeza or crown vetch. Legumes are particularly suited for erosion control because they add ni-

trogen to the soil by means of bacteria that live on their roots (see inoculant, above.) Nurse crop or nurse plant: an annual species such as rye grain, Sudangrass, or German millet that germinates rapidly. Nurse plants are included in mixtures to prevent erosion while slower-growing permanent plants are

Scarified seed: seed that has been treated by scratching the hard seed coat after any hull has been removed. Scarified legume seeds germinate rapidly. Most unscarified seeds lie dormant until the following spring.

Sprigs: fragments of spreading grasses that include at least one node (joint). Planting sprigs is an alternative to seeding; it is the only means of establishing hybrid Bermudagrass, which cannot be seeded.

to be seeded. Sample containers and directions are available from the North Carolina Department of Agriculture (NCDA) soil testing lab, or through county Agricultural Extension offices.

**Installation** During final grading, take soil samples from the top 6 inches in each area

Submit samples to the NCDA or a commercial laboratory for liming and fertilizer recommendations.\*

\*Agronomic Division, NC Department of Agriculture, Blue Ridge Rd. Center, Raleigh, N.C.

6.11.2

Table 6.11b Low-maintenance Mixtures — Mountains

6.11

Seeding No.1 Site Steep slopes, average Tall fescue Sericea lespedeza Korean lespedeza Redtop Kentucky bluegrass Nurse plants<sup>3</sup> Gentle or steep slopes Tall fescue with stony, dry soils Crown vetch Korean lespedeza Redtop Nurse plant<sup>3</sup> (If occasional mowing is desired, substitute 20 lb/acre sericea lespedeza for crown vetch) Gentle slopes, average Kentucky bluegrass Sericea lespedeza<sup>2</sup> Korean lespedeza Nurse plant<sup>3</sup> Black locust (tree) Gentle or steep slopes with stony, dry soils (trees) Korean lespedeza Winter rye (grain) Weeping lovegrass Redtop Tall fescue 175-200

Seeding numbers refer to seeding specifications in the N.C. Erosion and Sediment Control Planning and Design Manual (1988); "M" indicates Mountain region. <sup>2</sup> After Aug. 15 use unscarified seed for sericea lespedeza.

Kentucky bluegrass

Nurse plants<sup>3</sup>

Between May 1 and Aug. 15, add 10 lb/acre German millet or 15 lb/acre Sudangrass. Prior to May 1 or after

6.11.7

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6.11.9

6.11.10

22-376 | 06/01/2

### TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

**Purpose** To provide a stable entrance/exit condition from the construction site and keep mud and sediment off public roads (Figure 6.06a).

Figure 6.06a Gravel entrance/ exit keeps mud off public roads.



6.06.1

- Minimum Material: 2-3-inch washed stone over a stable foundation as speci-Requirements fied in the plan.
  - Thickness: 6 inches minimum (Figure 6.06b).
  - Width: 12 ft minimum or full width of exit roadway, whichever is greater.
  - Length: 50 ft minimum.
  - Washing facility (if required): level area with 3-inch washed stone minimum, or a commercial rack. Divert waste water to a sediment trap or basin.

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Temporary Gravel Construction Entrance/Exit

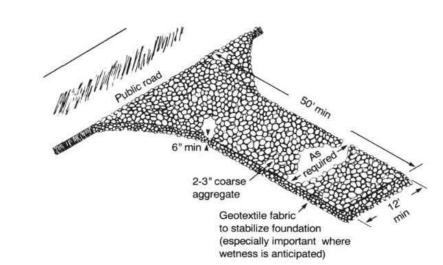


Figure 6.06b Plan of temporary construction entrance/exit.

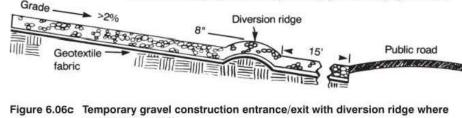
grade exceeds 2%.

Installation Avoid curves in public roads and steep slopes. Remove all vegetation and other objectionable material from the foundation area. Grade and crown foundation for positive drainage.

> If the slope toward the road exceeds 2%, construct a ridge, 6 to 8 inches high with 3:1 side slopes, across the foundation approximately 15 ft from the entrance to divert runoff away from the public road (Figure 6.06c)

> > 6.06.2

6.06.3



Place geotextile fabric on graded foundation to improve stability, espe-

6.06

cially where wet conditions are anticipated. Place stone to dimensions and grade shown on plans. Leave surface smooth and sloped for drainage. Divert all surface runoff and drainage from the stone pad to a sediment

trap or basin. Install pipe under pad if needed to maintain proper public road drainage.

- Common Inadequate runoff control-sediment washes onto public road (Figure Trouble
- Points Stone too small, pad too thin, or geotextile fabric absent-results in muddy conditions as stone is pressed into soil. Pad too short for heavy construction traffic-extend pad beyond the
  - minimum 50-ft length as necessary. Pad not flared sufficiently at road entrance-results in mud being tracked onto road and possible damage to road edge.
  - Unstable foundation—use geotextile fabric under pad and/or improve foundation drainage.

Temporary Gravel Construction Entrance/Exit

Figure 6.06d Trouble point: Inadequate runoff control-sediment washes onto public road.



Maintenance Inspect entrance/exit pad and sediment disposal area weekly and after heavy rains or heavy use.

Reshape pad as needed for drainage and runoff control.

Topdress with clean stone as needed.

Immediately remove mud and sediment tracked or washed onto public

6.06.4

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Repair any broken road pavement immediately.

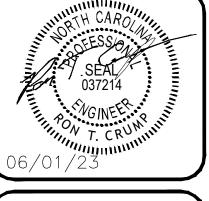




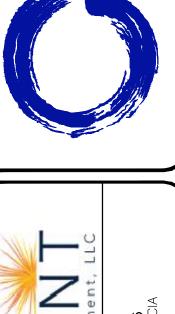
Real Estate Manageme	1146 CANTON ST, ROSWELL, GA 30075 CONTACT: MATT GARCIA

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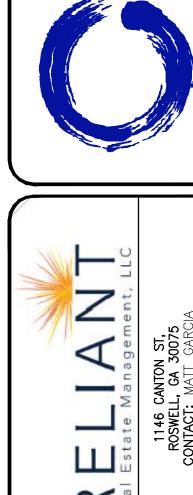
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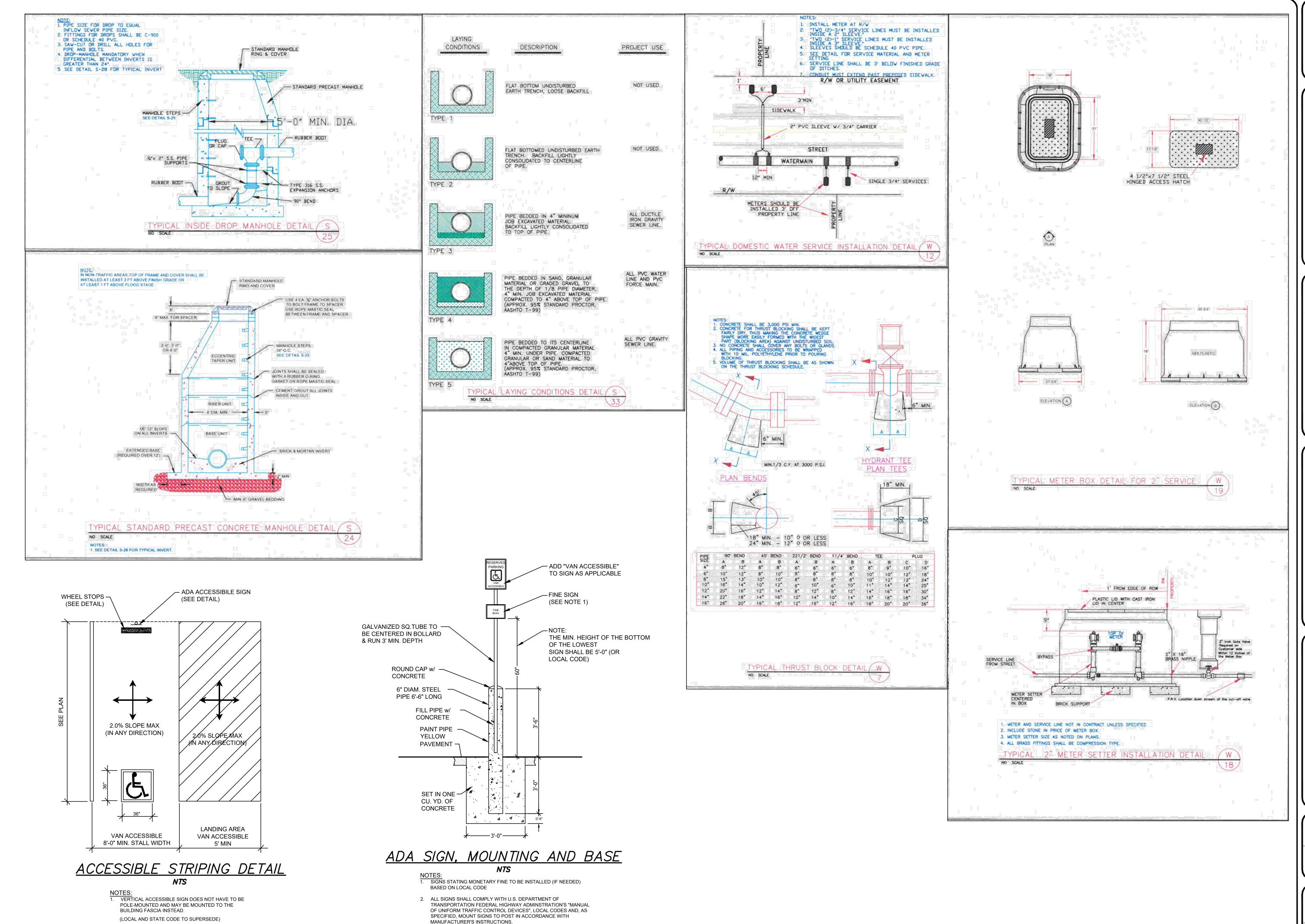
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EROSION CONTROL BMPs

SHEET C604



3. VERTICAL ACCESSIBLE SIGN DOES NOT HAVE TO BE POLE-MOUNTED AND MAY BE MOUNTED TO THE BUILDING FASCIA INSTEAD.



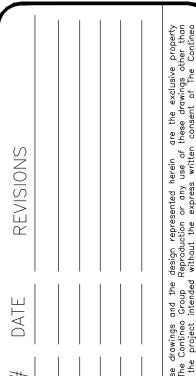
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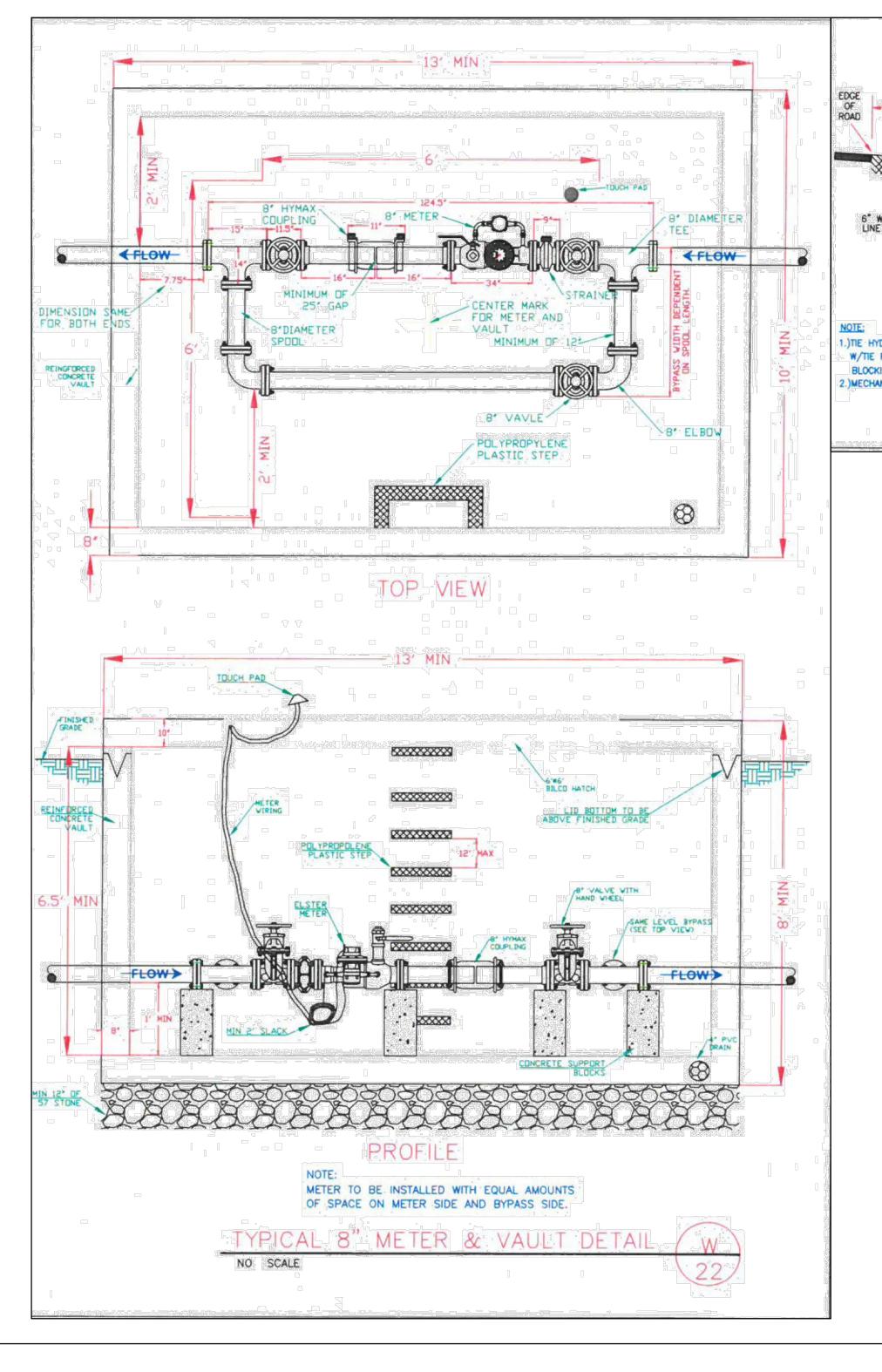
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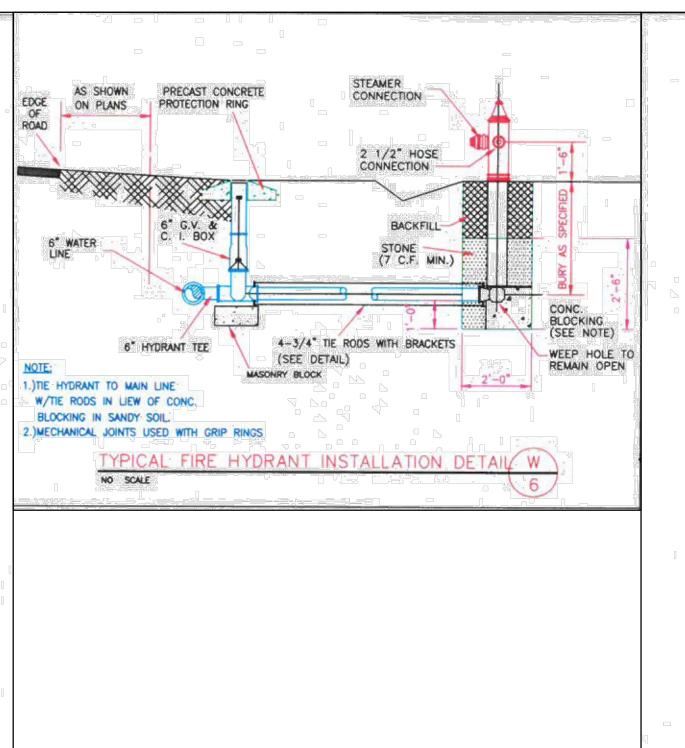


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STANDARD
DETAILS

C606





-1.5" ASPHALT SURFACE COURSE

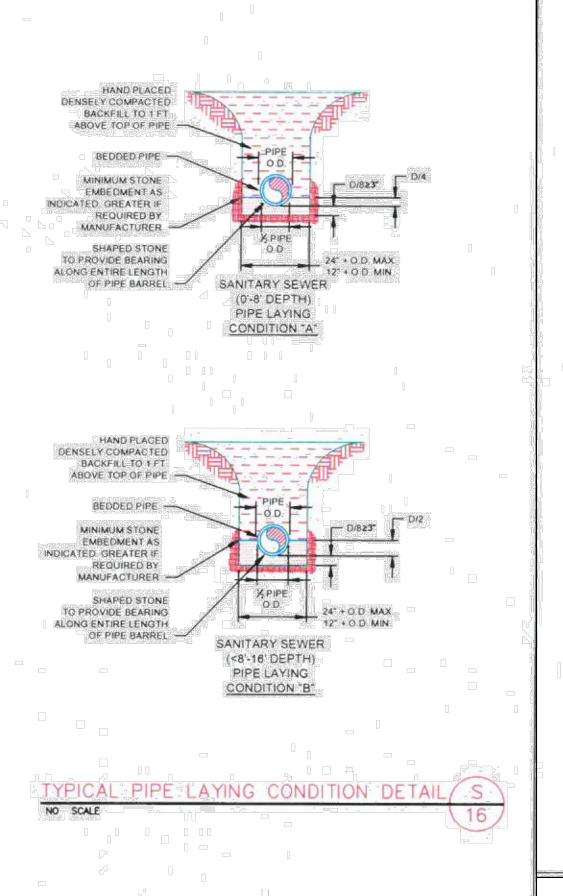
---- 2.0" ASPHALT BINDER COURSE

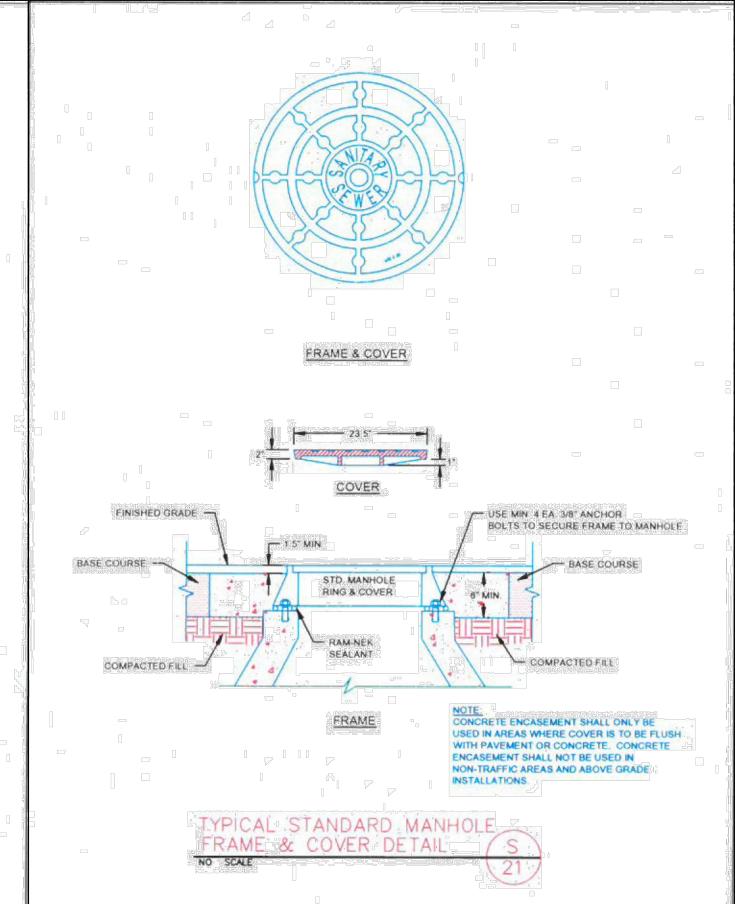
— 8" GRADED AGGREGATE BASE

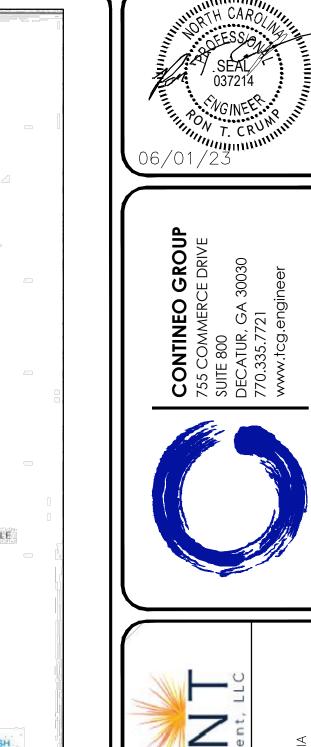
— TOP 12" OF SUBGRADE TO BE COMPACTED TO 98% DRY DENSITY, MODIFIED PROCTOR

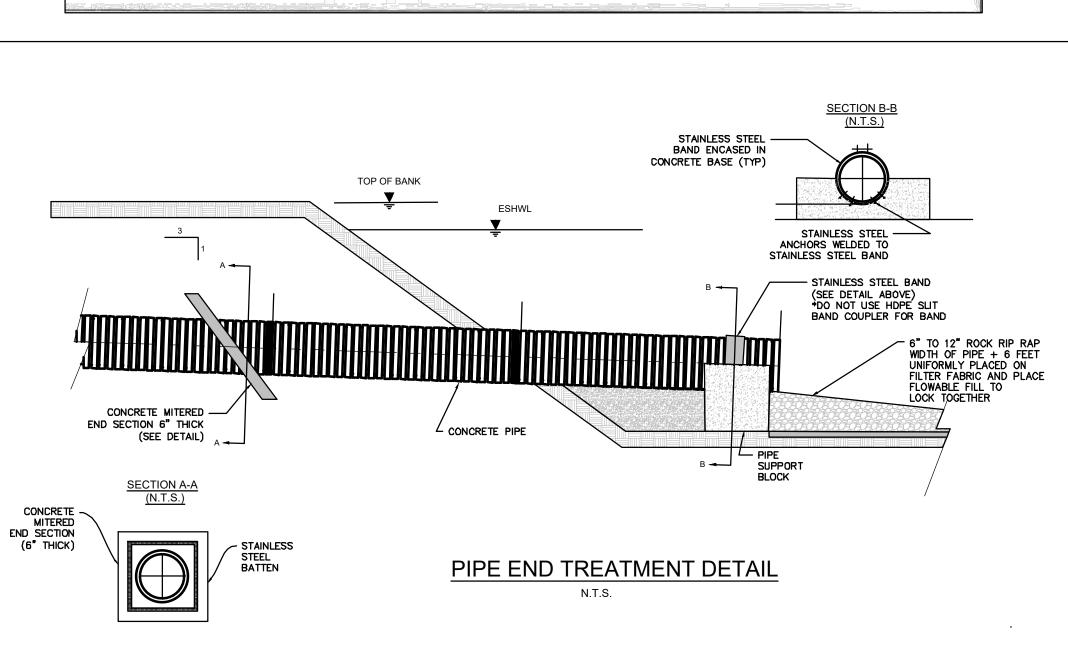
ASPHALT PAVEMENT DETAIL

NOTE: CONFIRM PAVEMENT DESIGN W/ GEOTECH PRIOR TO INSTALLATION









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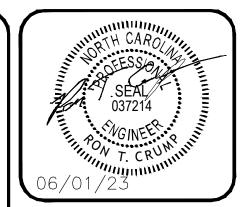
STANDARD DROP INLET SPECIFICATIONS n.t.s.

STANDARD DETAILS

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MIDGARD SELF STORAGE FACILTY

SPRING LAKE, NC

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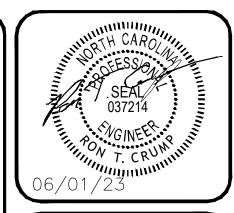
LOCATION: 14396 NC 210 S.,

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MIDGARD SELF STORAGE FACILTY

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