



Pender County

Agenda

Pender County Technical Review Committee Meeting
Thursday, January 4, 2024 @ 9:00 AM
Pender County Public Assembly Room

	Presenter	Page
1.	CALL TO ORDER	
2.	CASES	
2.1.	SDP 2023-369 SDP 2023-369 - Pdf	3 - 24
2.2.	SDP 2023-370 SDP 2023-370 - Pdf	25 - 37
2.3.	REZONE 2023-61 REZONE 2023-61 - Pdf	39 - 47



**Pender County
Lewis Veterinarian**

TO: Technical Review Committee
FROM: Taylor Davis
DATE: January 4, 2024
SUBJECT: SDP 2023-369

SUMMARY:

Major Site Development Plans submitted for a veterinarian facility/office consisting of exam rooms, x-ray/surgical areas, and office space.

ACTION REQUESTED:

Case to be reviewed by the TRC.

ATTACHMENTS:

1. Application
2. Site Plan

Pender County Planning and Community Development

805 S. Walker Street
PO Box 1519
Burgaw, NC 28425



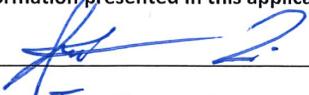
Phone: 910-259-1202
Fax: 910-259-1295
www.pendercountync.gov

Major Site Development Plan Submission

Applications will be considered for the Technical Review Committee hearing and reviewed by Staff only when deemed complete. The application will be regarded as incomplete until the following items are received by the Planning and Community Development Staff.

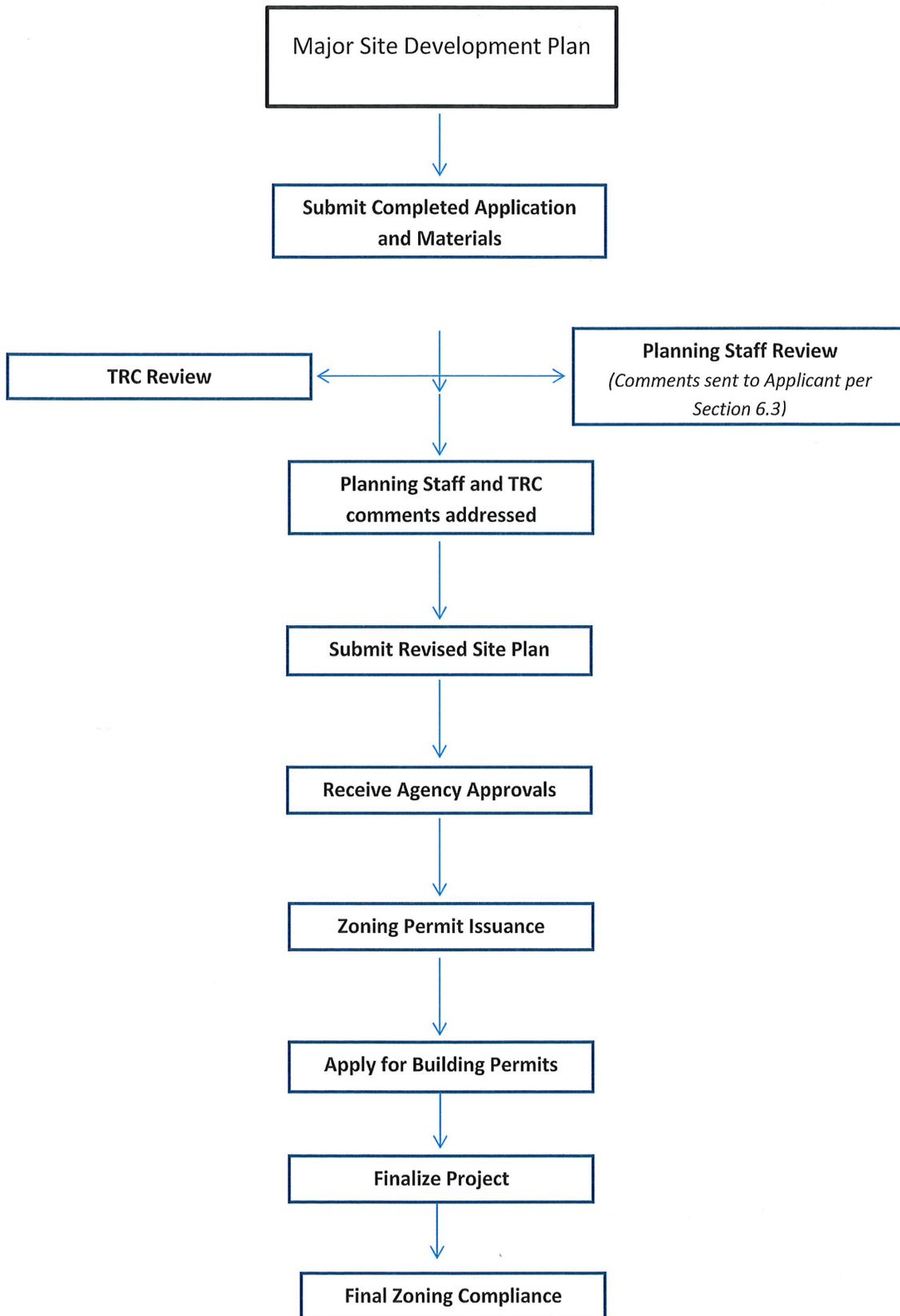
- | | | |
|----|-------------------------------------|---|
| 1. | <input checked="" type="checkbox"/> | <p>Pre-submittal Meeting
Date of Meeting <u>11/13/23</u></p> |
| 2. | <input checked="" type="checkbox"/> | <p>Signed Application</p> |
| 3. | <input checked="" type="checkbox"/> | <p>Payment
\$250</p> |
| 4. | <input checked="" type="checkbox"/> | <p>Paper Plan Sets
Two (2) 24 x 36, Fifteen (15) 11 x 17</p> |
| 5. | <input checked="" type="checkbox"/> | <p>Digital Submission
For all documents submitted in paper copy, bring a digital copy with paper submission.</p> |
| 6. | <input checked="" type="checkbox"/> | <p>Adjacent Property List
A list of names and addresses, as obtained from the county tax listings and tax abstract, to the owners of all properties located within 500-feet of the perimeter of the project bounds.</p> |
| 7. | <input checked="" type="checkbox"/> | <p>Adjacent Property Envelopes
The applicant shall provide a set of business envelopes addressed to each of the owners of all properties located within 500-feet of the perimeter of the project bounds and accompanied with the amount of postage required for first class postage.</p> |
| 8. | <input type="checkbox"/> | <p>Permits
Include any permits issued on the project including but not limited to: environmental, traffic, utility, or site specific conditions.</p> |
| 9. | <input checked="" type="checkbox"/> | <p>Site Plan Requirements
A prepared site plan in accordance with the Unified Development Ordinance standards Section 6.3, Pender County Collector Street Plan, Pender County Transportation Plan, other approved State of Federal Transportation Improvement Plan, or any other adopted plan in Pender County.
(See Major Site Development Checklist)</p> |

I certify that all information presented in this application is accurate to the best of my knowledge.

Signature of Applicant 
Printed Name Jonathan Lewis

Date 11/29/23

Staff Initials: _____
Date: _____



Specific requirements can be found in Section 6.3 of the Pender County Unified Development Ordinance

Major Site Development Plan Specific Requirements

1. Major Site Development Application Submittal

- Site Plan (per Section 6.3)
 - Scale
 - North Arrow
 - All property information (zoning, setbacks, PIN #)
 - Adjacent property info (owner, zoning, use, PIN #)
 - References to any previously approved plans
 - Utility providers
 - All existing and proposed structures
 - Buffering (Section 8.2.6) & Landscaping (8.3)
 - Parking (Section 7.10)
 - Lighting
 - Cross Access Connections (Section 7.4.4)
 - AM/PM Peak Hour Trip Calculations (TIA required with 100 AM/PM trips or >1,000 trips per day)
 - Soil Erosion and Sedimentation Control Plan
 - Location of all environmental features
 - Stormwater management features
 - Proposed accesses, easements, streets, and sidewalks
- Permits received

2. TRC Meeting

- Site Plan Review
- Agency comments/requirements

3. Post-TRC Meeting

- Submit site plan with revisions
- Receive agency approvals
- Forward all agency approvals to Planning Staff.

4. Approval of Site Plan

- All TRC comments and agency requirements addressed
- Zoning approval allows for building permit process to begin
- Apply for building permits

5. Final Zoning

- Site Visit to check the following:
 - Landscaping
 - Buffering
 - Parking

Pender County Planning and Community Development

Planning Division
805 S. Walker Street
PO Box 1519
Burgaw, NC 28425



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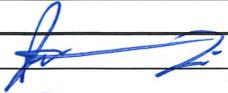
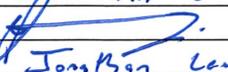
MAJOR AND MINOR SITE DEVELOPMENT APPLICATION

THIS SECTION FOR OFFICE USE			
Date:	Permit Number:	Permit Fee:	Invoice Number:
*Zoning Approval ONLY: YES / NO		Final Zoning Compliance Approved: YES / NO / N/A	
Type of Site Development Plan:	<input type="checkbox"/> Major	<input type="checkbox"/> Minor	
SECTION 1: GENERAL INFORMATION			
Applicant's Name:	Dr. Sara Lewis, DVM	Property Owner's Name:	SAME
Applicant's Address:	200 Krystal Pond Dr.	Property Owner's Address:	SAME
City, State, & Zip	Wilmington, NC 28411	City, State, & Zip	SAME
Phone Number:	910-336-9540	Phone Number:	SAME
Email Address:	saralewisdvm@gmail.com	Email Address:	SAME
Legal relationship of applicant to landowner:	Owner		
SECTION 2: PROJECT INFORMATION			
PIN (Property Id #):	3282-21-9177-0000	Total property acreage:	2.46
Zoning:	GB/IT	Acreage to be disturbed:	1.75
Water Provider:	PCU/Private Well	Wastewater Provider:	PCU
Directions to Site:	1.5 miles south from the intersection of Hwy 210 and US Hwy 17		
Lot Size: 2.46 ac		Sq Ft of Building: 5,380 sf	Building Height: 15 ft
Setbacks	Front: 25	Side: 10	Rear: 10
NAICS Code/Use:	541940/Veterinary Services		
Business Name:	Vet Cross Animal Urgent Care and Surgery		
Describe activities to be undertaken on project site:	Tree removal, clearing and grading for development of a single metal building, including driveway, parking, and stormwater management		
Ownership: <input checked="" type="checkbox"/> Private <input type="checkbox"/> Public	Number of Employees:	Number of Members:	Seating Capacity:

**If the applicant is not the owner of the property, a notarized letter from the property owner may be required*

**Zoning approval is for the use being proposed ONLY, other department approvals may be required i.e. Fire Marshal, Environmental Health, Permitting, etc...*

SECTION 4: ADDITIONAL COMMENTS	

SECTION 5: SIGNATURES			
Applicant's Signature		Date:	11/29/23
Applicant's Name Printed	Jonathan Lewis	Date:	11/29/23
Owner's Signature		Date:	11/29/23
Owner's Name Printed	Jonathan Lewis	Date:	11/29/23
Planning Staff:		Date:	

VET CROSS

ANIMAL URGENT CARE AND SURGERY

PARCEL: 3282-21-9177-0000
 PENDER COUNTY, NC
 TRC SUBMITTAL
 DECEMBER 01, 2023



Know what's below.
 Call before you dig.

ENGINEER

Riverview
 Engineering

4904 PARK AVENUE
 WILMINGTON, NC 28403
 (910) 398-2882
 nlauretta@rivervieweng.com

NC License No. P-1944

www.rivervieweng.com

PROJECT OWNER

DR. SARA LEWIS DVM
 MR. JOHN LEWIS
VET CROSS

STAMP

NOT FOR
 CONSTRUCTION

ISSUE FOR
 REVIEW

ISSUE DATE
 DECEMBER 01, 2023

REVISIONS

NO.	DESCRIPTION	DATE

PRINCIPAL IN CHARGE
 N. LAURETTA, P.E., LEED AP

PROJECT MANAGER
 N.L.

DRAWN BY
 N.L.

PROJECT ADDRESS
 HAMPSTEAD, NC

PROJECT NUMBER

1009.01

SHEET TITLE

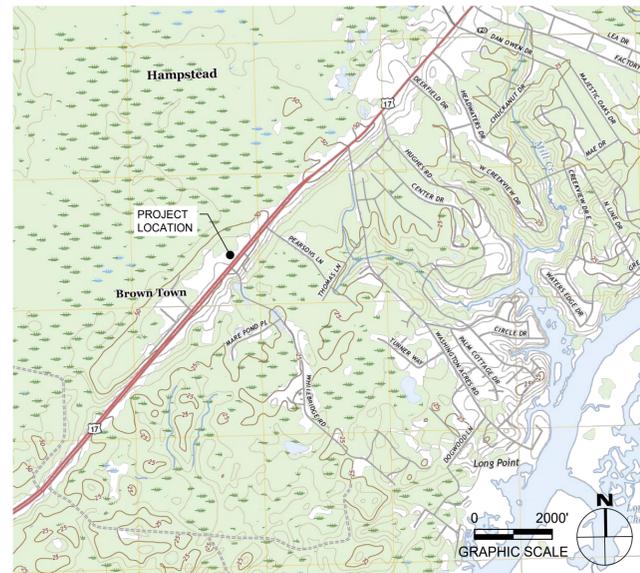
COVER SHEET

SHEET NUMBER

C-001

TRC SUBMITTAL

SHEET INDEX	
SHEET NUMBER	TITLE
C-001	COVER SHEET
VX101	EXISTING CONDITIONS & DEMOLITION PLAN
CE101	SEDIMENT & EROSION CONTROL PLAN
CS101	SITE PLAN
CS102	DRIVEWAY PLAN
CG101	STORM DRAINAGE & GRADING PLAN
CU101	UTILITY PLAN
CE501	SEDIMENT & EROSION CONTROL DETAILS
CE502	SEDIMENT & EROSION CONTROL DETAILS
CE503	SEDIMENT & EROSION CONTROL DETAILS
CE504	SEDIMENT & EROSION CONTROL DETAILS
CS501	SITE DETAILS
CG501	STORM DRAINAGE & GRADING DETAILS
CG502	STORM DRAINAGE & GRADING DETAILS
CU501	UTILITY DETAILS
CU502	UTILITY DETAILS



1 LOCATION MAP
 SCALE: 1" = 2000'



2 VICINITY MAP
 SCALE: 1" = 500'

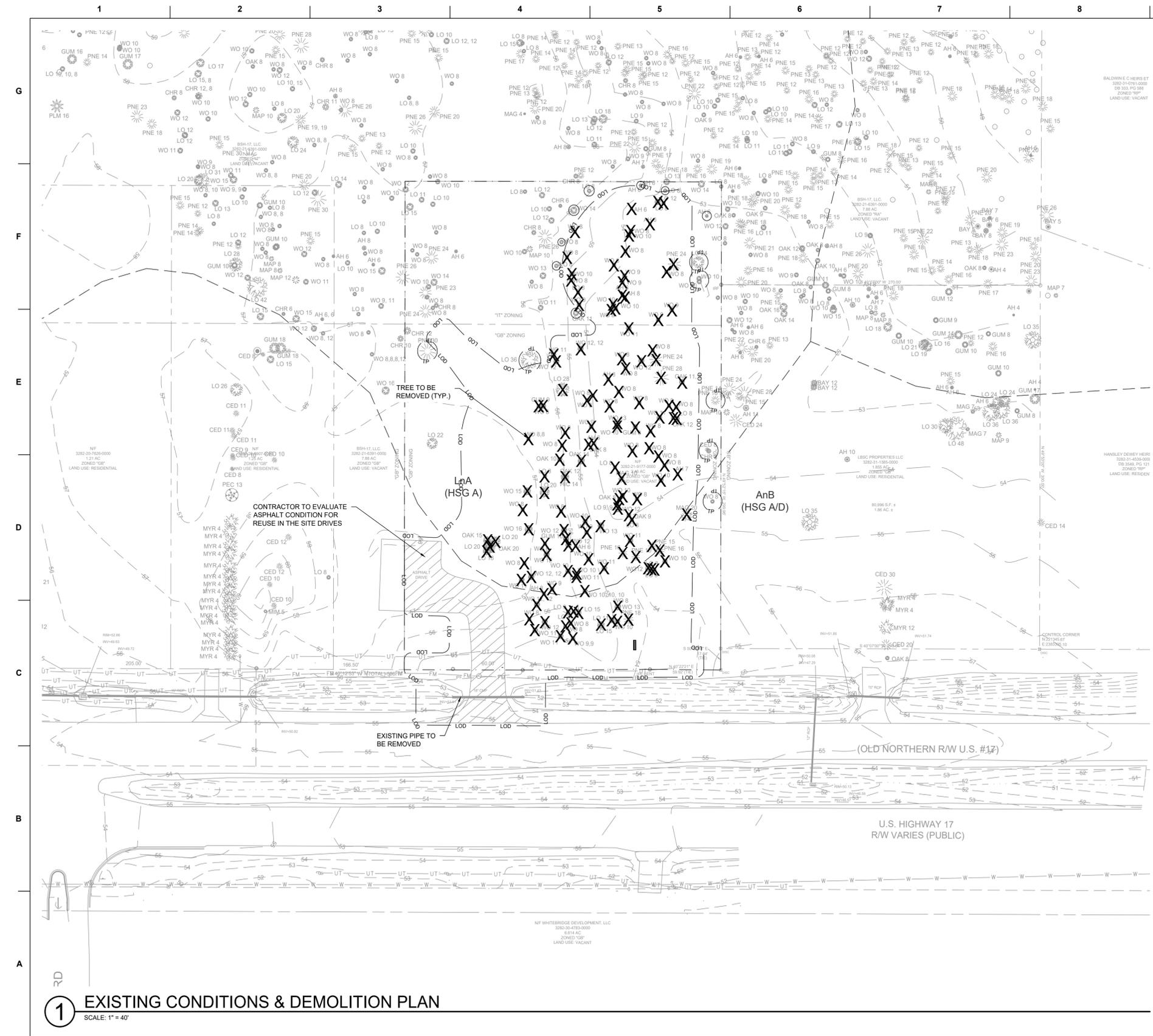
TREE REMOVAL

TREE TYPE	DBH (IN.)	MITIGATION (2" CAL.)	TREE TYPE	DBH (IN.)	MITIGATION (2" CAL.)	TREE TYPE	DBH (IN.)	MITIGATION (2" CAL.)	TREE TYPE	DBH (IN.)	MITIGATION (2" CAL.)	TREE TYPE	DBH (IN.)	MITIGATION (2" CAL.)
WATER OAK	9	2	OAK	20	2	WATER OAK	8	2	WATER OAK	8	2	PINE	24	0
WATER OAK	11	2	OAK	15	2	WATER OAK	10	2	WATER OAK	8	2	PINE	28	0
WATER OAK	8	2	WATER OAK	8	2	WATER OAK	8	2	WATER OAK	8	2	WATER OAK	9	2
WATER OAK	8	2	WATER OAK	12	2	WATER OAK	8	2	WATER OAK	8	2	WATER OAK	9	2
WATER OAK	11	2	WATER OAK	8	2	LIVE OAK	8	2	WATER OAK	9	2	WATER OAK	10	2
WATER OAK	12	2	WATER OAK	16	2	LIVE OAK	9	2	WATER OAK	10	2	WATER OAK	10	2
WATER OAK	12	2	WATER OAK	12	2	LIVE OAK	20	2	WATER OAK	10	2	WATER OAK	10	2
WATER OAK	11	2	WATER OAK	8	2	LIVE OAK	8	2	WATER OAK	13	2	WATER OAK	8	2
WATER OAK	8	2	WATER OAK	8	2	OAK	9	2	WATER OAK	8	2	WATER OAK	9	2
WATER OAK	8	2	WATER OAK	15	2	OAK	8	2	WATER OAK	8	2	WATER OAK	8	2
AMERICAN HOLLY	8	2	PINE	18	0	OAK	12	2	WATER OAK	8	2	WATER OAK	10	2
LIVE OAK	8	2	GUM	10	0	OAK	10	2	WATER OAK	8	2	WATER OAK	8	2
LIVE OAK	9	2	WATER OAK	12	2	OAK	10	2	WATER OAK	12	2	WATER OAK	8	2
LIVE OAK	15	2	WATER OAK	11	2	OAK	14	2	WATER OAK	11	2	WATER OAK	8	2
LIVE OAK	11	2	WATER OAK	10	2	OAK	8	2	LIVE OAK	28	2	WATER OAK	8	2
LIVE OAK	15	2	WATER OAK	12	2	HICKORY	14	2	OAK	12	2	WATER OAK	9	2
WATER OAK	10	2	WATER OAK	12	2	MAGNOLIA	10	0	OAK	11	2	WATER OAK	9	2
WATER OAK	13	2	WATER OAK	9	2	MAGNOLIA	20	2	LIVE OAK	8	2	WATER OAK	8	2
WATER OAK	8	2	WATER OAK	13	2	WATER OAK	10	2	WATER OAK	8	2	WATER OAK	10	2
WATER OAK	10	2	WATER OAK	10	2	WATER OAK	8	2	WATER OAK	8	2	WATER OAK	8	2
WATER OAK	10	2	PINE	16	0	WATER OAK	8	2	WATER OAK	8	2	WATER OAK	8	2
WATER OAK	9	2	PINE	15	0	WATER OAK	8	2	WATER OAK	8	2	PINE	24	0
WATER OAK	12	2	PINE	15	0	WATER OAK	8	2	WATER OAK	8	2	LIVE OAK	8	2
WATER OAK	10	2	PINE	16	0	WATER OAK	8	2	WATER OAK	8	2	LIVE OAK	12	2
WATER OAK	10	2	LIVE OAK	8	2	WATER OAK	11	2	WATER OAK	12	2	AMERICAN HOLLY	8	2
WATER OAK	11	2	LIVE OAK	9	2	AMERICAN HOLLY	7	2	WATER OAK	8	2	AMERICAN HOLLY	12	2
LIVE OAK	20	2	WATER OAK	10	2	AMERICAN HOLLY	6	2	WATER OAK	11	2			
LIVE OAK	18	2	WATER OAK	11	2	GUM	8	0	WATER OAK	12	2			
LIVE OAK	20	2	WATER OAK	12	2	GUM	9	0	AMERICAN HOLLY	8	2			

WHERE ANY SIGNIFICANT TREE SHOWN ON THE SIGNIFICANT TREE SURVEY IS PROPOSED TO BE REMOVED SUCH REMOVAL SHALL BE MITIGATED BY THE PLANTING ON SITE OF TWO (2) TREES OF THE SAME SPECIES WITH A MINIMUM CALIPER OF 2" OR GREATER.
 240 (2" CALIPER) TREES SHALL BE PLANTED

GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION METHODS PER THE LATEST EDITION OF PENDER COUNTY SPECIFICATIONS AND DETAILS.
- ALL SITE WORK, AT A MINIMUM, SHALL BE PERFORMED IN ACCORDANCE WITH THE 2024 NCDOT ROADWAY STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES UNLESS OTHERWISE NOTED OR DIRECTED. ROADS SHALL BE CONSTRUCTED TO NCDOT STANDARDS AND SPECIFICATIONS (LATEST EDITION).
- UNDERGROUND UTILITIES MAY EXIST ON, ALONG OR WITHIN CONFLICT OF THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING NC 811 OR THE APPROPRIATE UTILITY COMPANIES PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE DEMOLITION OF ANY EXISTING ON SITE ITEMS AS SHOWN ON THE DEMO PLAN, ABOVE AND BELOW GROUND. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REMOVAL OF ALL WASTE RESULTING FROM DEMOLITION.
- THE CONTRACTOR SHALL OBSERVE ALL REQUIRED SAFETY PRECAUTIONS IN THE PERFORMANCE OF ALL WORK IN ACCORDANCE WITH CURRENT OSHA REGULATIONS.
- THE CONTRACTOR SHALL GRADE, SEED, AND SOD OR OTHERWISE PROVIDE TEMPORARY AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS.
- WORK WITHIN PUBLIC RIGHT-OF-WAYS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS, NOTIFICATIONS, STANDARDS AND POLICIES.
- ANY SUBSTITUTIONS, CHANGES, OR MODIFICATIONS SHALL BE APPROVED BY THE PROJECT ENGINEER, PLANNING DEPARTMENT STAFF, AND OWNER PRIOR TO INSTALLATION/CONSTRUCTION.
- THE GRADE LINES DENOTE THE FINISHED ELEVATIONS OF THE PROPOSED SURFACE. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING, ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO PROVIDE A PROPER TIE-IN. CONTRACTOR SHALL FIELD VERIFY ALL PROPOSED INVERTS, FFE'S, AND FINISHED SURFACES TO ENSURE THAT MINIMUM SLOPE AND COVER REQUIREMENTS ARE PROVIDED PRIOR TO INSTALLATION.
- THE EARTHWORK ON THIS PLAN DOES NOT NECESSARILY BALANCE. OFFSITE BORROW OR WASTE MAY BE REQUIRED.
- ALL PIPE INVERTS TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTING GRAVITY SYSTEMS AND SHALL BE ADJUSTED BY THE ENGINEER IF NECESSARY. ALL CONCRETE PIPE SHALL BE REINFORCED CLASS III.
- NEW SIGNS REQUIRE ZONING COMPLIANCE AND BUILDING PERMITS PER UDO. A PERMIT IS REQUIRED FOR THE SITE IDENTIFICATION SIGN. SIGN SHALL MEET PENDER COUNTY STANDARDS.
- NO ADDITIONAL OUTDOOR LIGHTING IS PROPOSED. NEW LIGHTING REQUIRES ADDITIONAL PLANS AND PERMITS TO ENSURE COMPLIANCE WITH UDO.

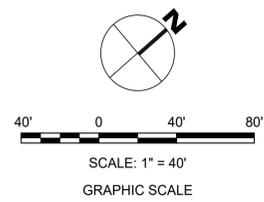


LEGEND

---	EDGE OF ASPHALT
---	EDGE OF CONCRETE
---	CENTERLINE
---	PROPERTY RIGHT OF WAY
---	PROPERTY EASEMENT
---	PROPERTY LINE
---	MAJOR CONTOUR
---	MINOR CONTOUR
---	UNDERGROUND TELECOMMUNICATIONS LINE
---	WATER LINE
---	FORCEMAIN
---	STORMWATER LINE
---	LIMITS OF DISTURBANCE
---	TREE PROTECTION FENCE
---	TREE
---	TO BE REMOVED
---	TREE TO BE REMOVED

- DEMOLITION NOTES**
1. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIARIZED WITH FIELD DEMOLITION CONDITIONS.
 2. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL DEMOLISHED DEBRIS ASSOCIATED WITH THE PROJECT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST GENERATED BY THE WORK, INCLUDING BUT NOT LIMITED TO DEMOLITION AND CONSTRUCTION ACTIVITIES, SITE VEHICULAR TRAFFIC AND RELATED OPERATIONS.
 4. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL EXISTING UTILITIES LOCATED PRIOR TO BEGINNING ANY DEMOLITION. CONTRACTOR SHALL CONTACT NO ONE CALL AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
 5. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE AND ENGINEER IMMEDIATELY.
 6. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF DISCONNECTING AND ABANDONING ALL EXISTING UTILITIES WITH THE OWNER UNLESS OTHERWISE NOTED. ALL EXISTING UTILITIES AND ASSOCIATED PIPING, ETC. NOT IN USE ON THE SITE SHALL BE PROPERLY ABANDONED AND REMOVED AS REQUIRED. COORDINATE WITH THE OWNER.
 7. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ANY EXISTING UTILITIES THAT REMAIN IN SERVICE DURING DEMOLITION.
 8. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS AND SLOPES ON AND OFF SITE IN ACCORDANCE WITH THE EROSION CONTROL MEASURES SPECIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHO IS RESPONSIBLE FOR PROVIDING THE PERMANENT STABILIZATION MEASURES AND THE TYPE OF PERMANENT MEASURES PRIOR TO BEGINNING DEMOLITION AND CONSTRUCTION. THE PERMANENT STABILIZATION MEASURES SHALL BE IN PLACE AND ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND ENGINEER PRIOR TO PROJECT CLOSEOUT. COORDINATE INSPECTION WITH THE OWNER AND ENGINEER PRIOR TO PROJECT CLOSEOUT.
 9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND CONTACTING THE ENGINEER FOR THE REQUIRED INSPECTIONS ON THE PROJECT.
 10. WETLANDS DO NOT EXIST ON SITE. WETLANDS WILL NOT BE DISTURBED DURING CONSTRUCTION OF THIS PROJECT.

- EXCAVATION, GRADING, AND BACKFILLING NOTES**
1. ANY UNDERCUTTING IN GOOD SOIL SHALL BE REPLACED AND THE REPLACEMENT MATERIAL SHALL BE COMPACTED TO NINETY-FIVE (95) PERCENT OF MAXIMUM DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT, AS DETERMINED BY THE ASTM D 698 STANDARD PROCTOR TEST METHOD. IN THE EVENT THAT MATERIAL ENCOUNTERED AT PIPE GRADE, SUBGRADE OF PARKING OR ROADWAYS AND SUBGRADE OF BUILDING FOUNDATIONS IS FOUND TO BE SOFT, SPONGY, OR IN ANY OTHER WAY UNSUITABLE, THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER IMMEDIATELY. SUCH UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH AS SPECIFIED BY THE GEOTECHNICAL ENGINEER AND REPLACED WITH A MINIMUM OF SIX (6) INCHES OF STONE, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
 2. BEFORE BACKFILLING IS COMMENCED OVER PIPES AND OTHER INSTALLATIONS, EARTH FILL SHALL BE SOLIDLY TAMPED AROUND AND ABOVE THE PIPE TO A DEPTH OF ONE (1) FOOT ABOVE THE TOP OF THE PIPE. CARE SHALL BE TAKEN TO PREVENT ANY DISTURBANCE TO THE PIPE OR DAMAGE TO NEWLY MADE JOINTS. THE FILLING OF THE TRENCH SHALL BE CARRIED OUT SIMULTANEOUSLY ON BOTH SIDES OF THE PIPES IN SUCH A MANNER THAT INJURIOUS SIDE PRESSURES DO NOT OCCUR.
 3. THE MATERIAL FOR BACKFILLING SHALL BE FREE FROM ALL PERISHABLE AND OBJECTIONABLE MATERIALS. BEFORE PLACING ANY BACKFILL, ALL RUBBISH, FORM BLOCKS, WIRES OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM EXCAVATION. THE BACK-FILLING OVER PIPES SHALL BE PLACED IN LAYERS NOT OVER SIX (6) INCHES THICK AND COMPACTED TO A MINIMUM DENSITY OF NINETY-FIVE (95) PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION TEST TO A DEPTH OF 12 INCHES BELOW FINISHED GRADE. THE LAST 12 INCHES OF BACKFILL SHALL BE PLACED IN LAYERS NOT OVER SIX (6) INCHES THICK AND COMPACTED TO A MINIMUM DENSITY OF NINETY-EIGHT (98) PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION TEST.



1 EXISTING CONDITIONS & DEMOLITION PLAN
SCALE: 1" = 40'

ENGINEER

Riverview Engineering
4904 PARK AVENUE
WILMINGTON, NC 28403
(910) 398-2882
rlauretta@rivervieweng.com

NC License No. P-1944
www.rivervieweng.com

PROJECT OWNER

**DR. SARA LEWIS DVM
MR. JOHN LEWIS**
VET CROSS

STAMP

NOT FOR CONSTRUCTION

ISSUE FOR REVIEW

ISSUE DATE
DECEMBER 01, 2023

REVISIONS

###	

PRINCIPAL IN CHARGE
N. LAURETTA, P.E., LEED AP

PROJECT MANAGER
NXL

DRAWN BY
NXL

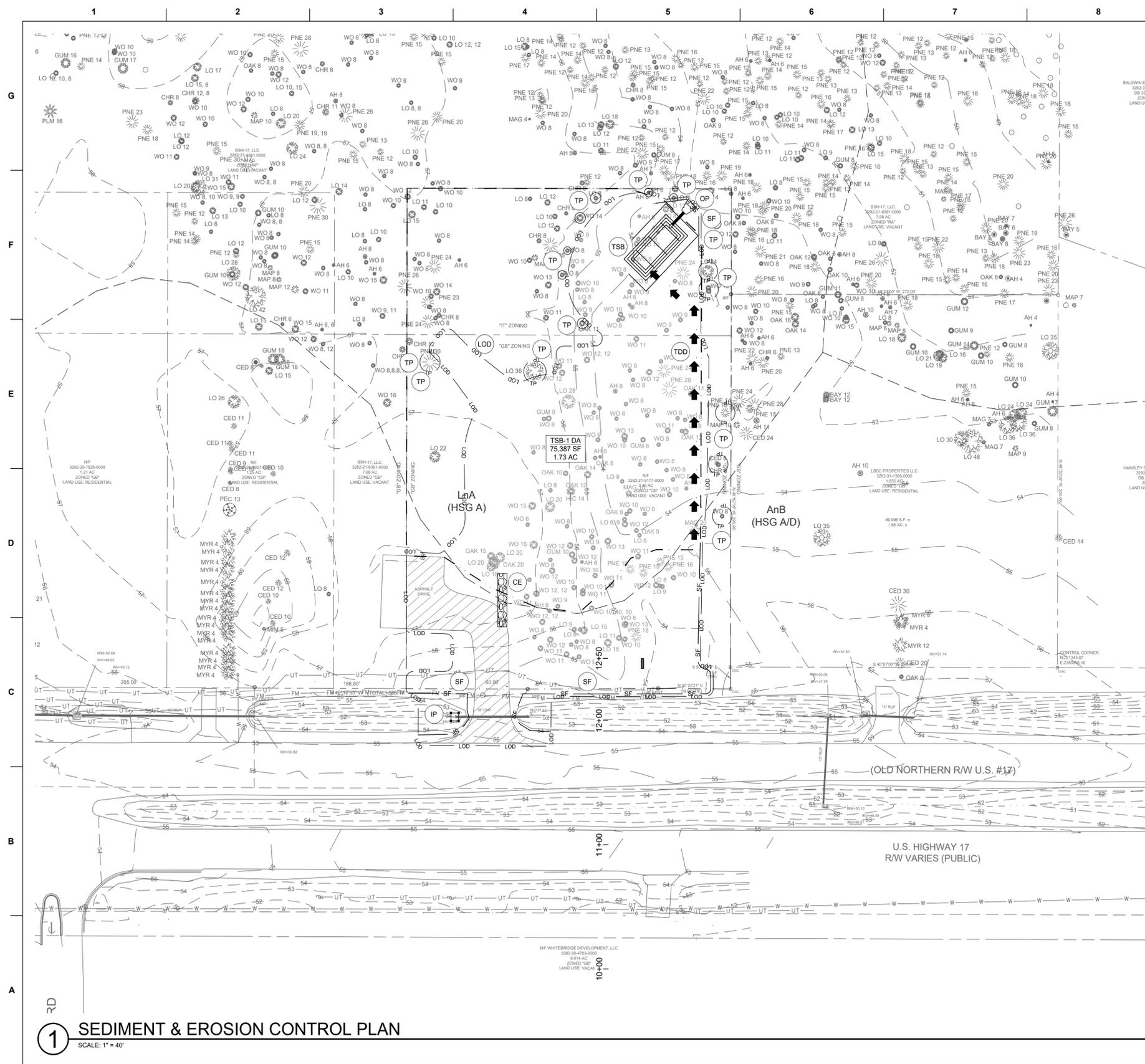
PROJECT ADDRESS
HAMPSTEAD, NC

PROJECT NUMBER
1009.01

SHEET TITLE
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NUMBER
VX101

TRC SUBMITTAL



1 SEDIMENT & EROSION CONTROL PLAN
SCALE: 1" = 40'

LEGEND

- LOD — LIMITS OF DISTURBANCE (LOD)
- TP — TREE PROTECTION FENCE (TP)
- SF — SILT FENCE (SF)
- TDD — DIVERSION DITCH (TDD)
- CE — CONSTRUCTION ENTRANCE (CE)
- IP — INLET PROTECTION (IP)
- — — — — PROPERTY LINE
- 55 — MAJOR CONTOUR
- 54 — MINOR CONTOUR
- ☼ TREE

- TREE PROTECTION NOTES**
- PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
 - NO LAND DISTURBANCE, INCLUDING TREE REMOVAL, IS TO OCCUR OUTSIDE THE PROJECT BOUNDARY SHOWN ON THE PLANS, UNLESS OTHERWISE NOTED. TREE PROTECTION FENCING IS SHOWN OUTSIDE OF PROJECT BOUNDARY FOR PROTECTION OF EXISTING TREES IN CLOSE PROXIMITY TO PROPOSED CONSTRUCTION.
 - PROTECTIVE FENCING IS TO BE PROPERLY MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTOR SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.
 - LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.
 - NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED BY THE LANDSCAPE ARCHITECT.
 - ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING AND GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.

- EROSION CONTROL NOTES**
- TOTAL LAND DISTURBANCE AREA: 1.75 AC.
 - ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
 - GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF STATE LAW AND IS SUBJECT TO A FINE. ANY BUILDER THAT ANTICIPATED THE DISTURBANCE OF MORE THAN ONE ACRE WILL BE REQUIRED TO GET AN EROSION CONTROL PERMIT FROM NCDEQ.
 - GROUND COVER MUST BE PROVIDED ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING; AND, A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
 - ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED.
 - SLOPES SHALL BE GRADED NO STEEPER THAN 3:1.
 - ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED UPON BY THE FIELD INSPECTOR, ENGINEER, AND OWNER.
 - IF ACTIVE CONSTRUCTION CEASES IN ANY AREA FOR MORE THAN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER), ALL DISTURBED AREAS MUST BE SEEDED, MULCHED, AND TACKED.
 - WITHIN 24 HOURS FOLLOWING ANY RAIN EVENT, THE CONTRACTOR SHALL INSPECT AND REPAIR, AS NECESSARY, ALL DAMAGED EROSION CONTROL MEASURES.
 - ALL ACTIVITY AND INSTALLATION OF EROSION CONTROL MATTING WILL BE COMPLETE PRIOR TO ANY RAIN EVENT.

- CONSTRUCTION SEQUENCE:**
- OBTAIN ALL NECESSARY STATE AND LOCAL PERMIT APPROVALS.
 - PRIOR TO ANY CLEARING AND GRUBBING, INSTALL SILT FENCE, TREE PROTECTION FENCE AND GRAVEL CONSTRUCTION ENTRANCES.
 - COMMENCE CLEARING DOWN TO STUMPS WITHIN LIMITS OF CONSTRUCTION.
 - INSTALL ADDITIONAL TEMPORARY SEDIMENT TRAPS WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON THE PLANS TO TREAT SEDIMENT LADEN WATER FROM ROADWAY MASS GRADING. TEMPORARY SKIMMER BASINS SHALL BE CONSTRUCTED PRIOR TO CONSTRUCTION OF ANY TEMPORARY DIVERSION DITCHES THAT CONVEY WATER TO A BASIN. THE CONTRACTOR SHALL FIELD ADJUST TEMPORARY DIVERSION DITCHES AS REQUIRED TO MAINTAIN THE DIVERSION TO THE BASINS.
 - INSTALL TEMPORARY SKIMMER BASIN PRIOR TO CONSTRUCTION OF ANY DIVERSION DITCHES THAT CONVEY WATER TO A BASIN.
 - COMMENCE GRUBBING AND MASS GRADING WITHIN LIMITS OF CONSTRUCTION.
 - INSTALL PUBLIC SEWER AND WATER, AND STORMWATER MANAGEMENT FACILITIES TO INCLUDE PIPING AND DRAINAGE SWALES.
 - REMOVE ACCUMULATED SEDIMENT FROM DITCHES AND SEDIMENT BASINS AS REQUIRED ON THE PLANS AND PERMIT.
 - COMPLETE ROADWAY, DRIVEWAY AND PARKING LOT CONSTRUCTION TO SUBGRADE.
 - INSTALL GRAVEL BASE IN ROADWAYS AND PARKING LOTS.
 - INSTALL FIRST LIFT OF BASE COURSE ASPHALT, AND THEN HOLD OFF ON THE FINAL ASPHALT COARSE UNTIL END OF CONSTRUCTION SEQUENCE.
 - REMOVE SILT FENCE INLET PROTECTION AND INSTALL STAGE TWO INLET PROTECTION.
 - COMMENCE BUILDING CONSTRUCTION.
 - THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN EROSION CONTROL MEASURES AND CLEAN TEMPORARY SEDIMENT TRAPS AND BASINS.
 - SEED AND STABILIZE ALL AREAS WITHIN FOURTEEN (14) DAYS OF EARTHWORK BEING LEFT UNDISTURBED FOR EXTENDED PERIODS OF TIME.
 - UPON COMPLETION OF CONSTRUCTION, PRIOR TO FINAL ASPHALT LIFT INSTALLATION, THE CONTRACTOR SHALL REQUEST FINAL INSPECTION FROM THE NCDEQ EROSION CONTROL INSPECTOR TO ALLOW REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES.

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PROJECT OWNER

**DR. SARA LEWIS DVM
MR. JOHN LEWIS**
VET CROSS

STAMP

NOT FOR CONSTRUCTION

ISSUE FOR REVIEW

ISSUE DATE
DECEMBER 01, 2023

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUE FOR REVIEW	12/01/23

PRINCIPAL IN CHARGE
N. LAURETTA, P.E., LEED AP

PROJECT MANAGER
NXL

DRAWN BY
NXL

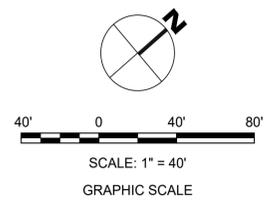
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HAMPSTEAD, NC

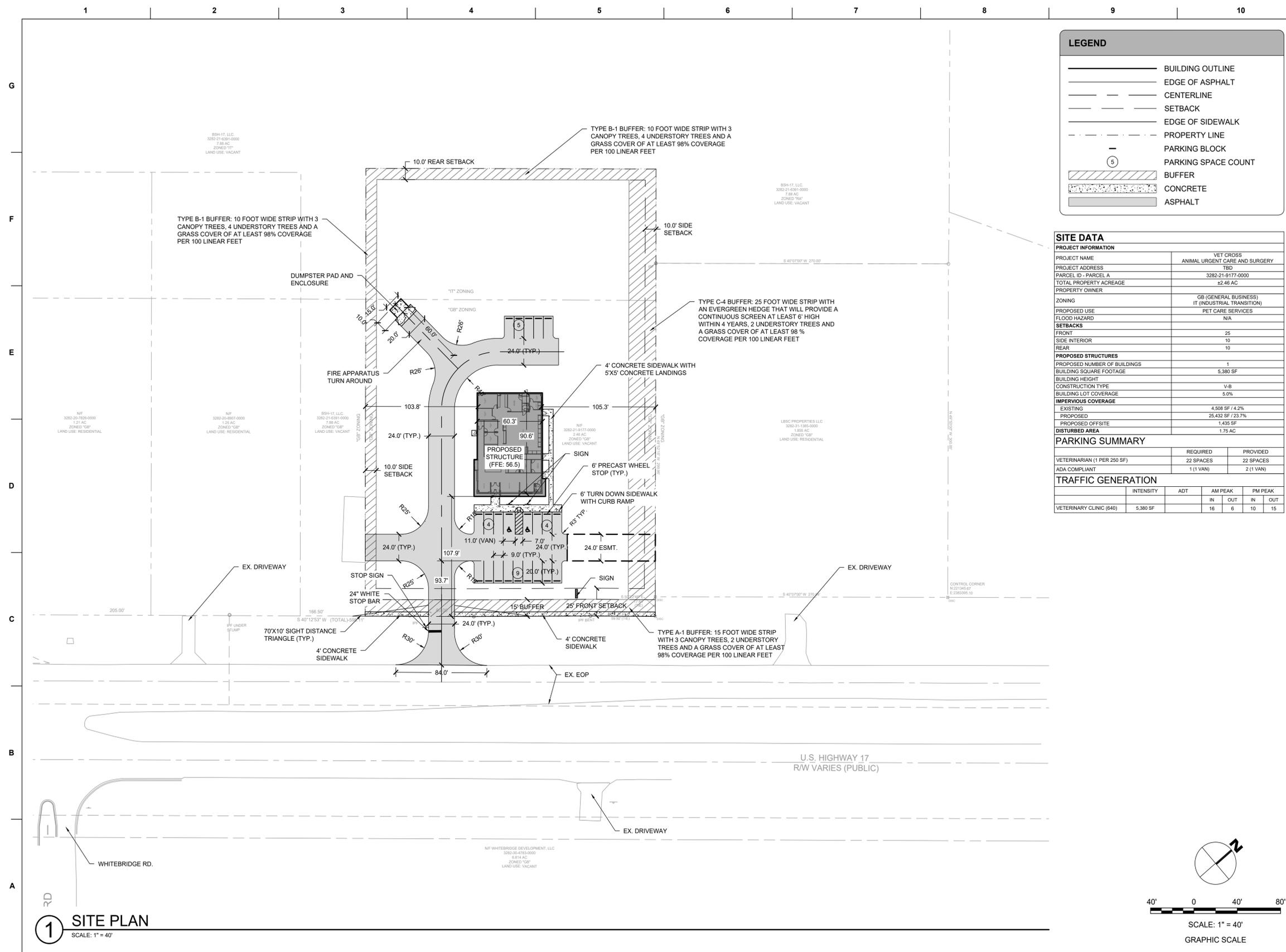
PROJECT NUMBER
1009.01

SHEET TITLE
SEDIMENT & EROSION CONTROL PLAN

SHEET NUMBER
CE101

TRC SUBMITTAL





LEGEND

- BUILDING OUTLINE
- EDGE OF ASPHALT
- CENTERLINE
- SETBACK
- EDGE OF SIDEWALK
- PROPERTY LINE
- PARKING BLOCK
- PARKING SPACE COUNT
- BUFFER
- CONCRETE
- ASPHALT

SITE DATA

PROJECT INFORMATION				
PROJECT NAME	VET CROSS			
PROJECT ADDRESS	TBD			
PARCEL ID - PARCEL A	3282-21-9177-0000			
TOTAL PROPERTY ACREAGE	±2.46 AC			
PROPERTY OWNER				
ZONING	GB (GENERAL BUSINESS) IT (INDUSTRIAL TRANSITION)			
PROPOSED USE	PET CARE SERVICES			
FLOOD HAZARD	N/A			
SETBACKS				
FRONT	25			
SIDE INTERIOR	10			
REAR	10			
PROPOSED STRUCTURES				
PROPOSED NUMBER OF BUILDINGS	1			
BUILDING SQUARE FOOTAGE	5,380 SF			
BUILDING HEIGHT				
CONSTRUCTION TYPE	V-B			
BUILDING LOT COVERAGE	5.0%			
IMPERVIOUS COVERAGE				
EXISTING	4,508 SF / 4.2%			
PROPOSED	25,432 SF / 23.7%			
PROPOSED OFFSITE	1,435 SF			
DISTURBED AREA	1.75 AC			
PARKING SUMMARY				
VETERINARIAN (1 PER 250 SF)	REQUIRED: 22 SPACES	PROVIDED: 22 SPACES		
ADA COMPLIANT	1 (1 VAN)	2 (1 VAN)		
TRAFFIC GENERATION				
	INTENSITY	ADT	AM PEAK	PM PEAK
VETERINARY CLINIC (640)	5,380 SF		IN OUT	IN OUT
			16 6	10 15

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PROJECT OWNER

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VET CROSS**

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ISSUE DATE
DECEMBER 01, 2023

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PRINCIPAL IN CHARGE
N. LAURETTA, P.E., LEED AP

PROJECT MANAGER
NXL

DRAWN BY
NXL

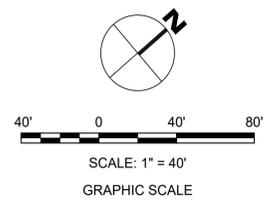
PROJECT ADDRESS
HAMPSTEAD, NC

PROJECT NUMBER
1009.01

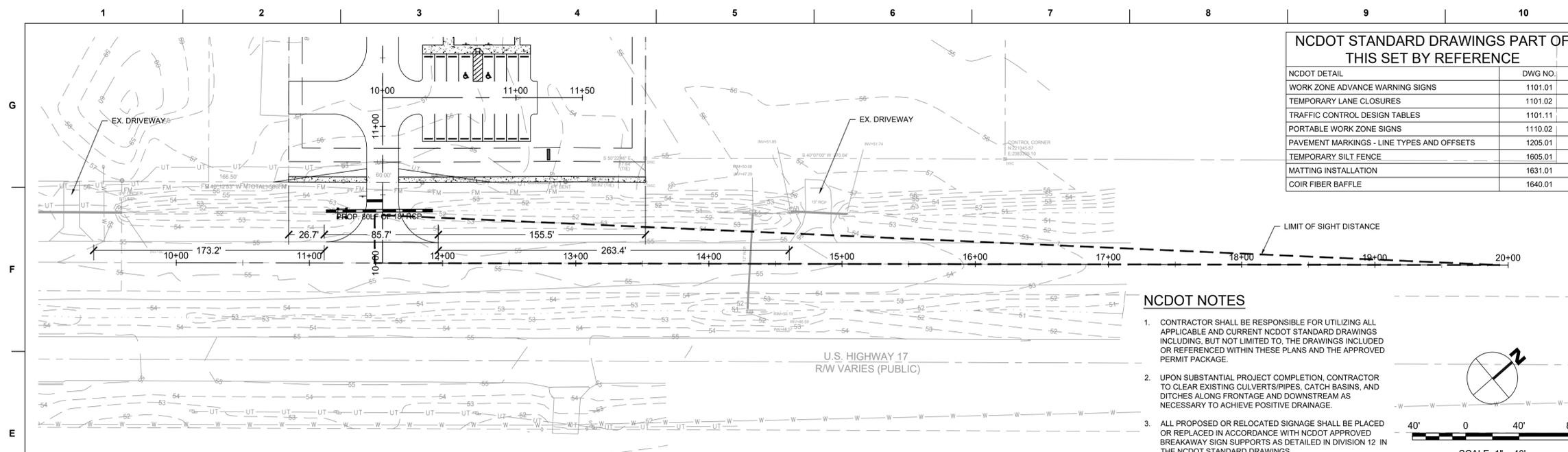
SHEET TITLE
SITE PLAN

SHEET NUMBER
CS101

TRC SUBMITTAL



1 SITE PLAN
SCALE: 1" = 40"

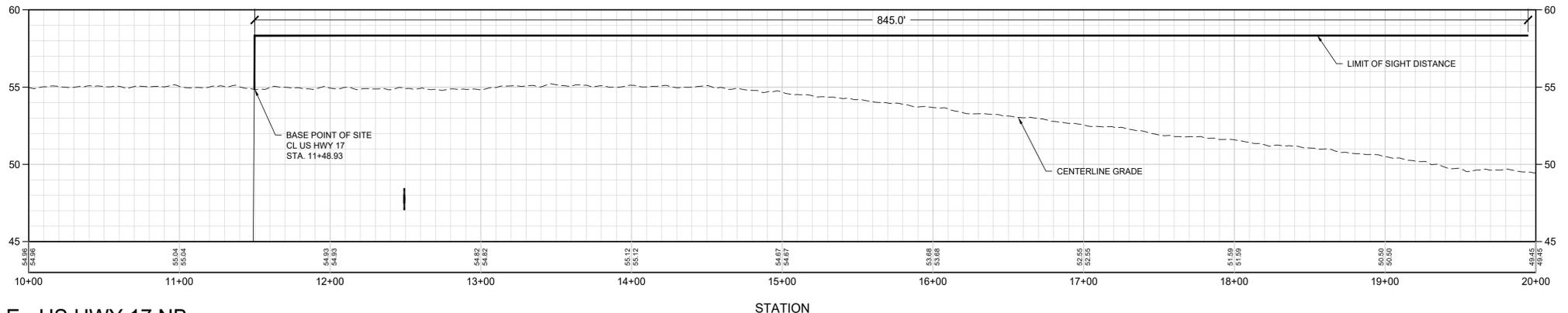


NCDOT STANDARD DRAWINGS PART OF THIS SET BY REFERENCE

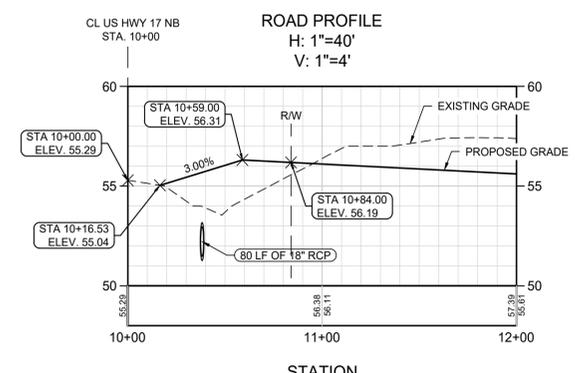
NCDOT DETAIL	DWG NO.
WORK ZONE ADVANCE WARNING SIGNS	1101.01
TEMPORARY LANE CLOSURES	1101.02
TRAFFIC CONTROL DESIGN TABLES	1101.11
PORTABLE WORK ZONE SIGNS	1110.02
PAVEMENT MARKINGS - LINE TYPES AND OFFSETS	1205.01
TEMPORARY SILT FENCE	1605.01
MATTING INSTALLATION	1631.01
COIR FIBER BAFFLE	1640.01

- NCDOT NOTES**
- CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING ALL APPLICABLE AND CURRENT NCDOT STANDARD DRAWINGS INCLUDING, BUT NOT LIMITED TO, THE DRAWINGS INCLUDED OR REFERENCED WITHIN THESE PLANS AND THE APPROVED PERMIT PACKAGE.
 - UPON SUBSTANTIAL PROJECT COMPLETION, CONTRACTOR TO CLEAR EXISTING CULVERTS/PIPES, CATCH BASINS, AND DITCHES ALONG FRONTAGE AND DOWNSTREAM AS NECESSARY TO ACHIEVE POSITIVE DRAINAGE.
 - ALL PROPOSED OR RELOCATED SIGNAGE SHALL BE PLACED OR REPLACED IN ACCORDANCE WITH NCDOT APPROVED BREAKAWAY SIGN SUPPORTS AS DETAILED IN DIVISION 12 IN THE NCDOT STANDARD DRAWINGS.
 - CONTRACTOR TO SAWCUT EXISTING ASPHALT FOR SMOOTH JOINT NOT ALIGNED WITH WHEEL PATH.

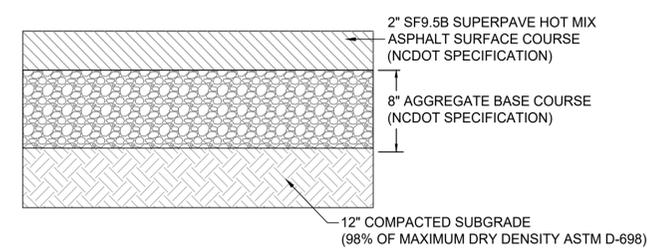
1 PLAN - CL US HWY 17 NB
SCALE: 1" = 40'



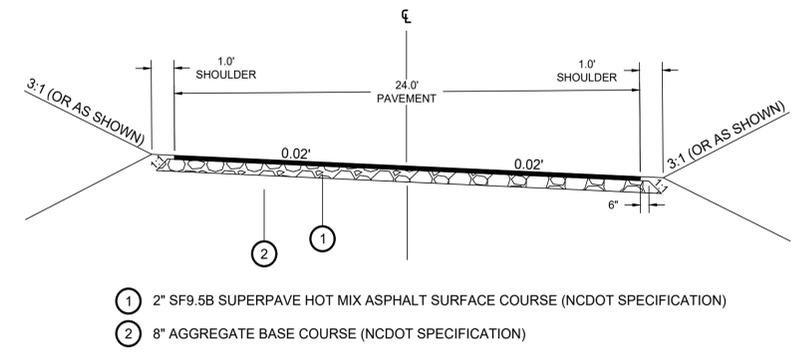
2 PROFILE - US HWY 17 NB
SCALE: HOR. 1" = 40', VERT. 1" = 4'



3 DRIVEWAY PROFILE DETAIL
SCALE: HOR. 1" = 40', VERT. 1" = 4'



4 NCDOT DRIVEWAY PAVEMENT SECTION
SCALE: NOT TO SCALE



5 DRIVEWAY SECTION - SUPERELEVATED
SCALE: NOT TO SCALE

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ISSUE DATE
DECEMBER 01, 2023

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NO.	DESCRIPTION	DATE
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PRINCIPAL IN CHARGE
N. LAURETTA, P.E., LEED AP

PROJECT MANAGER
N.J.L.

DRAWN BY
N.J.L.

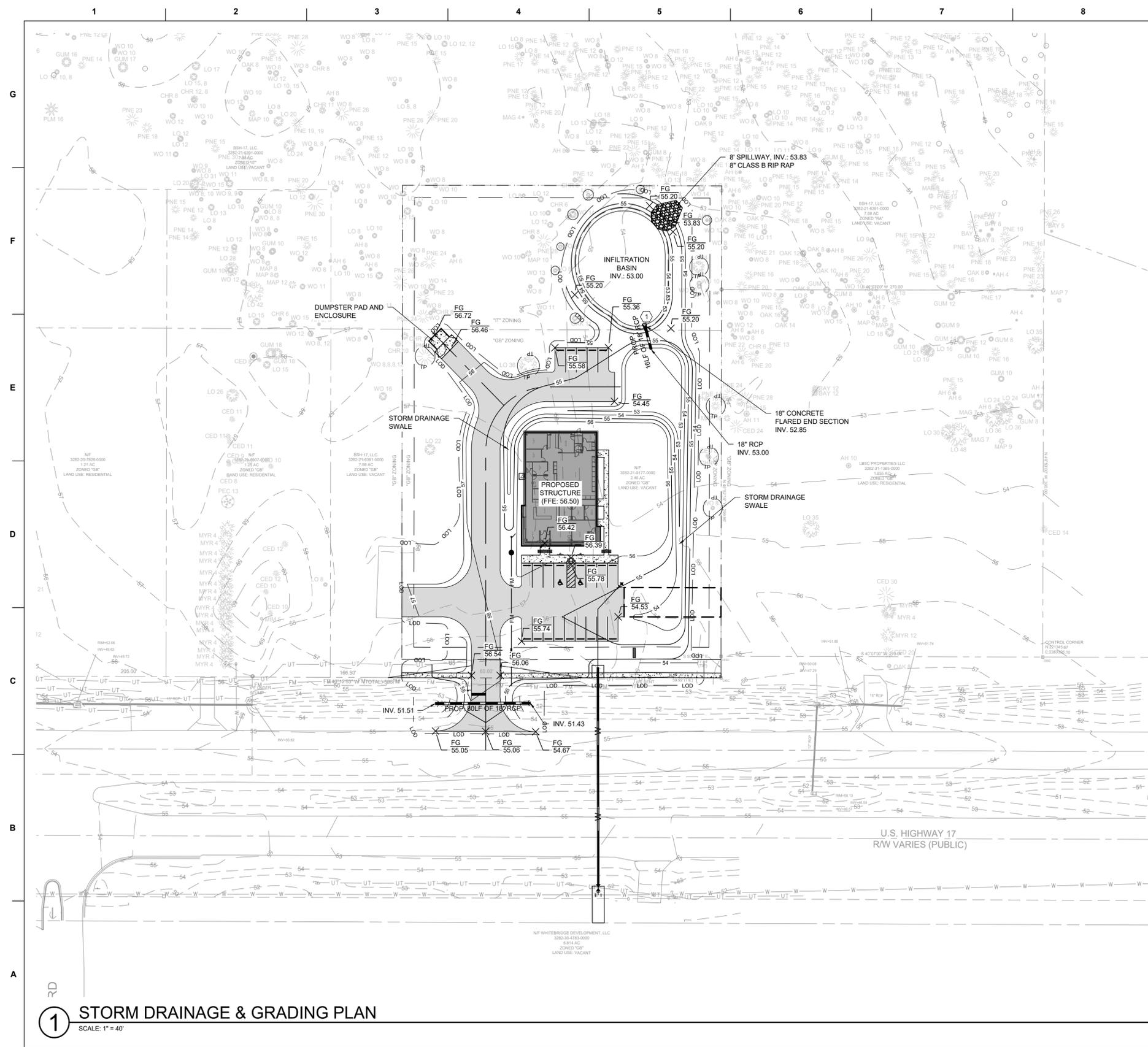
PROJECT ADDRESS
HAMPSTEAD, NC

PROJECT NUMBER
1009.01

SHEET TITLE
DRIVEWAY PLAN

SHEET NUMBER
CS102

TRC SUBMITTAL



LEGEND

- BUILDING OUTLINE
- EDGE OF ASPHALT
- CENTERLINE
- SETBACK
- EDGE OF SIDEWALK
- PROPERTY LINE
- CONCRETE
- ASPHALT
- EDGE OF ASPHALT
- CENTERLINE
- 55 EX. MAJOR CONTOUR
- 55 PROP. MAJOR CONTOUR
- 54 EX. MINOR CONTOUR
- 54 PROP. MINOR CONTOUR
- PROP. 80LF OF 18" RCP
- LOD LIMITS OF DISTURBANCE
- TP TREE PROTECTION FENCE

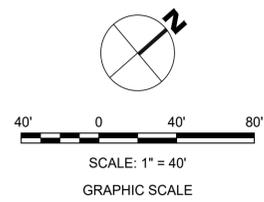
STORM DRAINAGE AND GRADING NOTES

- IN ACCORDANCE WITH NC GENERAL STATUTES, NPDES REGULATIONS, AND NC DENR REQUIREMENTS, STORMWATER DISCHARGE OUTFALLS SHALL BE INSPECTED BY THE CONTRACTOR. INSPECTIONS SHALL BE PERFORMED BY THE CONTRACTOR AFTER EACH STORM EVENT OF 1/2 INCH OR GREATER, WITH ONE WEEKLY INSPECTION MINIMUM. NC DENR STANDARD INSPECTION REPORTS SHALL BE PREPARED AND SIGNED WITH COPIES PROVIDED TO THE OWNER, ARCHITECT, AND ENGINEER, BY THE CONTRACTOR.
- INLET PROTECTION SHALL BE INSTALLED AROUND OUTFALL DEVICES SHALL BE CONSTRUCTED TO FINAL PROPOSED CONDITION UPON STABILIZATION OF CONTRIBUTING GROUND SURFACES AND REMOVAL OF SEDIMENT FROM STORM PIPES.
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGERS IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- UNLESS OTHERWISE NOTED, GRADES AND SPOT ELEVATIONS NOTED ON PLANS INDICATE FINISHED GRADE OR PAVEMENT SURFACE. ALL DIMENSIONS ARE MEASURED TO THE BACK OF CURB UNLESS OTHERWISE INDICATED.

MATERIALS AND EASEMENT NOTES:

- ALL STORM DRAINAGE PIPING TO BE RCP, UNLESS OTHERWISE NOTED
- ALL STORM DRAINAGE PIPING CONVEYING DISCHARGE FROM THE PUBLIC RIGHT-OF-WAY SHALL BE CONTAINED WITHIN A PUBLIC DRAINAGE EASEMENT WHOSE WIDTH IS DETERMINED BY THE DEPTH OF BURY
- POTABLE WATER SHALL BE PROVIDED BY PRIVATE WELL, FIRE PROTECTION WATER AND SANITARY SEWER UTILITIES ARE PUBLIC.

1 STORM DRAINAGE & GRADING PLAN
SCALE: 1" = 40'



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PRINCIPAL IN CHARGE
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PROJECT MANAGER
N/L

DRAWN BY
N/L

PROJECT ADDRESS
HAMPSTEAD, NC

PROJECT NUMBER
1009.01

SHEET TITLE
STORM DRAINAGE & GRADING PLAN

SHEET NUMBER
CG101

TRC SUBMITTAL

UTILITY NOTES

- SCHEDULE A PRECONSTRUCTION MEETING WITH PENDER COUNTY UTILITIES (PCU) 48 HOURS PRIOR TO CONSTRUCTION OF WATER AND SEWER LINES.
- WATER AND SANITARY SEWER UTILITY MAINS ARE PRIVATE BEYOND THE PUBLIC STREET RIGHT-OF-WAY.
- THIS PROJECT SHALL COMPLY WITH CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND NCDEQ HAS ISSUED THE "FINAL APPROVAL".
- ALL COMMERCIAL WATER SERVICES AND ANY IRRIGATION SYSTEMS SUPPLIED BY PCU WATER SHALL HAVE A BACKFLOW PREVENTION DEVICE ACCEPTABLE TO PCU.
- WATER: 1.5" AND 2" PVC SERVICES SHALL BE CONSTRUCTED USING ASTM D2241, IPS, GASKETED PIPE. SDR 21, 4"-12" PVC MAINS AND SERVICES SHALL BE CONSTRUCTED USING AWWA C-900 PVC, CL235 (DR-18). REQUIREMENTS OF AWWA C900 ELASTOMERIC PUSH-ON JOINTS.
- SANITARY SEWER: FOR PIPE SIZES 4" AND 6" PIPE SHALL BE SCH 40 CONFORMING TO THE REQUIREMENTS OF ASTM D1785 WITH SOLVENT WELD JOINTS CONFORMING TO ASTM D2872. FOR PIPE SIZES 8" THROUGH 12" PIPE SHALL BE CLASS 150, DR18 CONFORMING TO THE REQUIREMENTS OF AWWA C900 WITH ELASTOMERIC PUSH-ON JOINTS CONFORMING TO ASTM D3212 OR ASTM D3139.
- WATER AND SEWER SERVICES CANNOT BE ACTIVATED ON NEW MAINS UNTIL ENGINEER'S CERTIFICATION AND AS-BUILTS ARE RECEIVED AND "FINAL APPROVAL" ISSUED BY PUBLIC WATER SUPPLY SECTION OF NCDENR AND "FINAL ENGINEERING CERTIFICATION" ISSUED BY NCDEQ.
- SITE UTILITY CONTRACTOR TO PROVIDE WATER AND SANITARY SEWER SERVICE TO WITHIN 5 FEET OF THE BUILDING. CONTRACTOR SHALL COORDINATE SITE PLAN CONNECTIONS WITH THE ARCHITECTURAL BUILDING PLANS.
- MAXIMUM BENDING RADIUS FOR 8" C-900 PVC WATER MAIN BENDS IS 380' (ONE-HALF MANUFACTURER'S RECOMMENDED ALLOWABLE LONGITUDINAL BENDING).
- UNDERGROUND UTILITIES: ALL NEW UTILITIES SHALL BE INSTALLED UNDERGROUND, EXCEPT WHERE SUCH PLACEMENT IS PROHIBITED OR DEEMED IMPRACTICAL BY THE UTILITY PROVIDER. UNDERGROUND TERMINAL FACILITIES FOR STREET LIGHTING ALONG THE PUBLIC STREETS ABUTTING THE SUBJECT SITE SHALL BE INSTALLED BY THE DEVELOPER.
- MINIMUM OF 36" COVERAGE ABOVE ALL WATERMANS.
- MINIMUM OF 36" VERTICAL SEPARATION BETWEEN WATERLINES AND STORMDRAIN CURB INLETS
- A VARIANCE IS NOT ANTICIPATED FROM ANY NORTH CAROLINA DIVISION OF WATER QUALITY (DWQ) REQUIREMENT.
- PLANS ARE IN COMPLIANCE WITH PCU TECHNICAL STANDARDS AND SPECIFICATIONS.

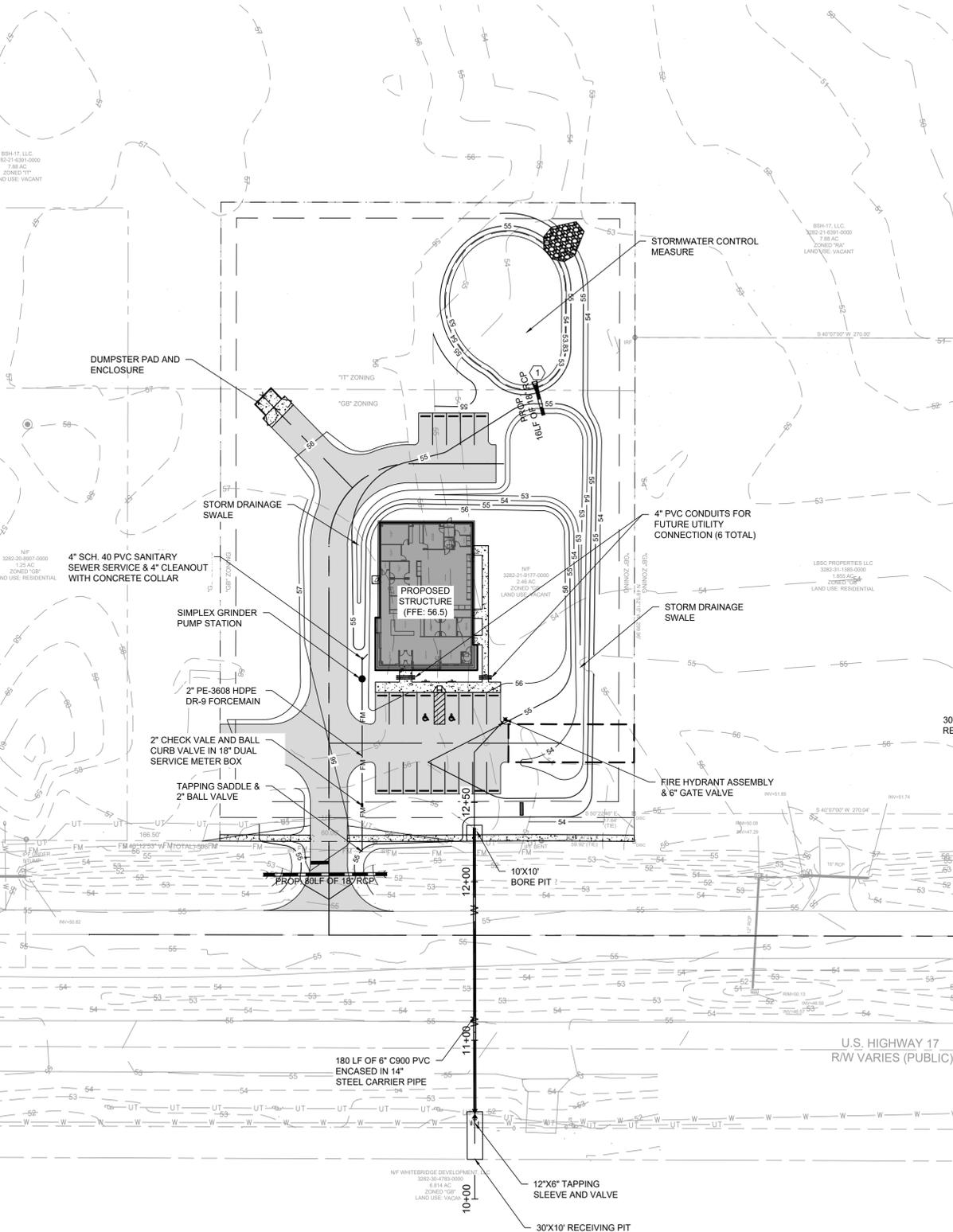
RELATION OF WATER MAINS TO SANITARY SEWERS:

- LATERAL SEPARATION OF SANITARY SEWERS AND WATER MAINS: WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10 FOOT LATERAL SEPARATION, IN WHICH CASE:
 - THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, OR
 - THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND ABOVE THE TOP OF THE SEWER.
- CROSSING A WATER MAIN OVER A SEWER MAIN: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 24 INCHES ABOVE THE TOP OF THE SEWER MAIN, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION - IN WHICH CASE BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- CROSSING A WATER MAIN UNDER A SEWER MAIN: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- CROSSING A SEWER MAIN/WATER MAIN OVER OR UNDER A STORM DRAIN: WHENEVER IT IS NECESSARY FOR A SEWER MAIN/WATER MAIN TO CROSS A STORM DRAIN PIPE, THE SEWER MAIN/WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE OUTSIDE OF THE SEWER MAIN/WATER MAIN NEAREST TO THE OUTSIDE OF THE STORM DRAIN PIPE SHALL MAINTAIN A 24 INCH CLEAR SEPARATION DISTANCE HORIZONTAL, OR THE SEWER MAIN/WATER MAIN SHALL EITHER BE CONSTRUCTED OF DUCTILE IRON PIPE OR ENCASED IN EITHER CONCRETE OR DUCTILE IRON PIPE FOR AT LEAST 5 FEET ON EITHER SIDE OF THE CROSSING.

FIRE PROTECTION NOTES

- HYDRANT MUST BE WITHIN 150' OF THE FDC.
- THE FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
- HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB.
- COMBUSTIBLE MATERIALS MAY NOT BE STORED OR ERRECTED ON SITE WITHOUT CITY FIRE INSPECTOR APPROVAL.
- NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO CONSTRUCTION OF THE BUILDING(S).
- A MINIMUM OF 5' SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM UNDERGROUND UTILITIES
- CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION SITE AT ALL TIMES.
- FIRE HYDRANTS ARE TO BE INSTALLED PER SPECIFICATIONS.

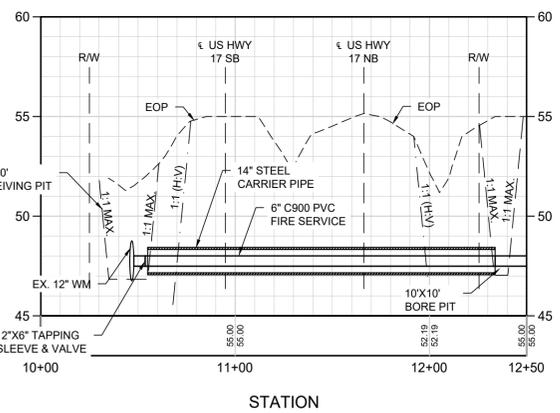
1 UTILITY PLAN
SCALE: 1" = 40'



LEGEND

- BUILDING OUTLINE
- EDGE OF ASPHALT
- CENTERLINE
- SETBACK
- EDGE OF SIDEWALK
- PROPERTY LINE
- CONCRETE
- ASPHALT
- EDGE OF ASPHALT CENTERLINE
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- PROP. MAJOR CONTOUR
- PROP. MINOR CONTOUR
- STORMWATER LINE
- EX. UNDERGROUND TELECOMMUNICATIONS LINE
- EX. WATER LINE
- EX. FORCEMAIN
- PROP. WATER LINE
- PROP. FORCEMAIN
- PROP. FIRE HYDRANT
- PROP. PUMP STATION

WATER PROFILE
H: 1"=40'
V: 1"=4'



2 FIRE SERVICE PROFILE
SCALE: 1" = 40'

GRAPHIC SCALE: 0, 40, 80 feet
SCALE: 1" = 40'

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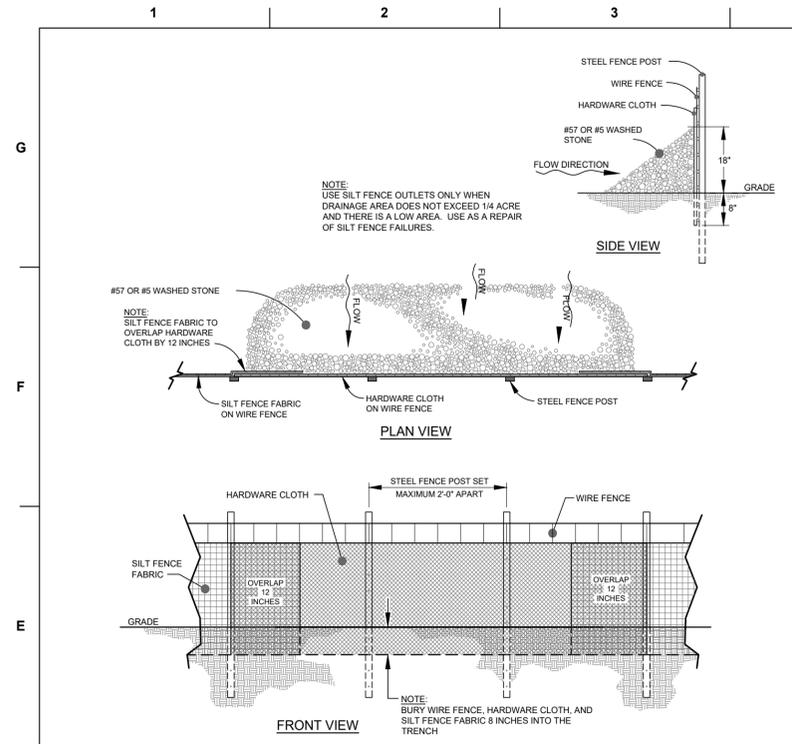
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ISSUE DATE: DECEMBER 01, 2023

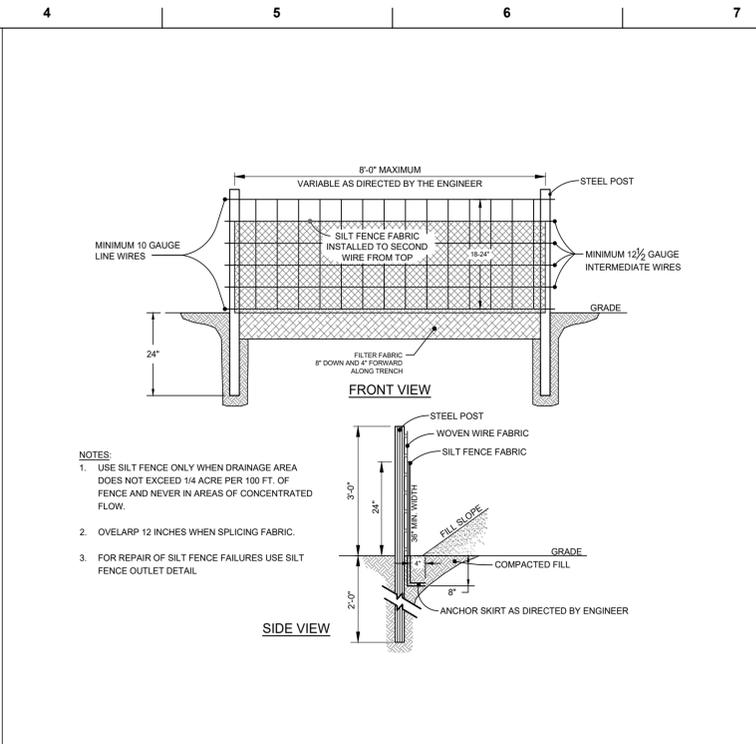
REVISIONS

PRINCIPAL IN CHARGE: N. LAURETTA, P.E., LEED AP
PROJECT MANAGER: NJL
DRAWN BY: NJL
PROJECT ADDRESS: HAMPSTEAD, NC

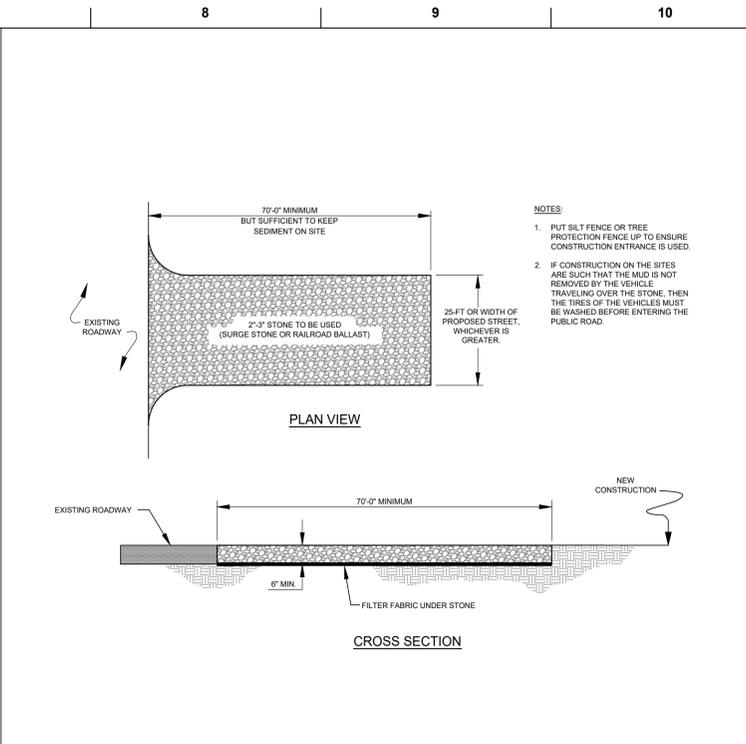
PROJECT NUMBER: 1009.01
SHEET TITLE: **UTILITY PLAN**
SHEET NUMBER: **CU101**
TRC SUBMITTAL



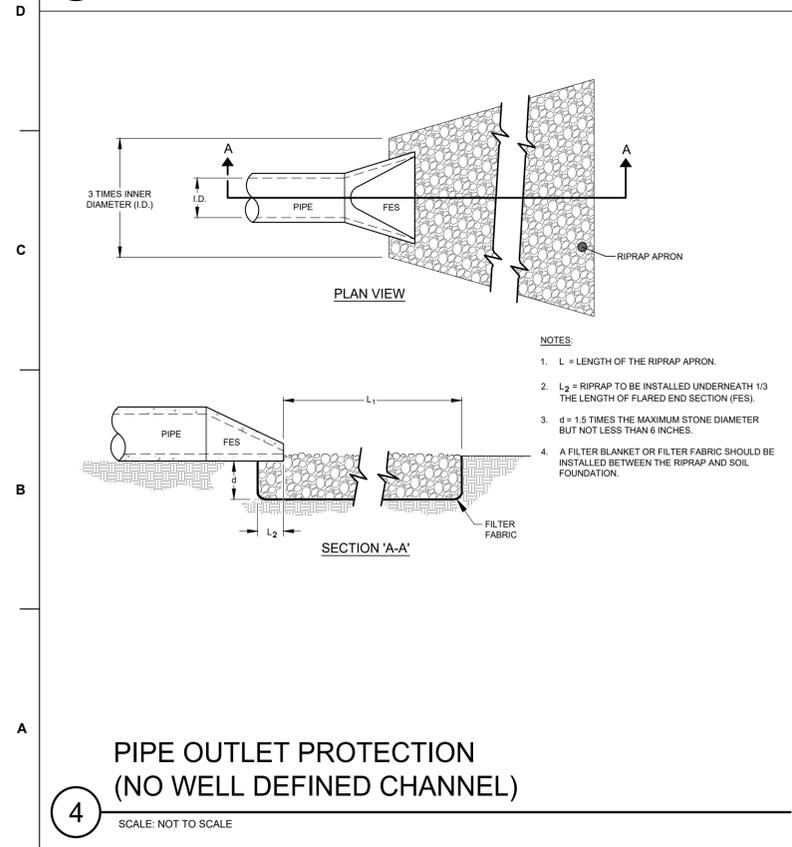
1 TEMPORARY SILT FENCE OUTLET
SCALE: NOT TO SCALE



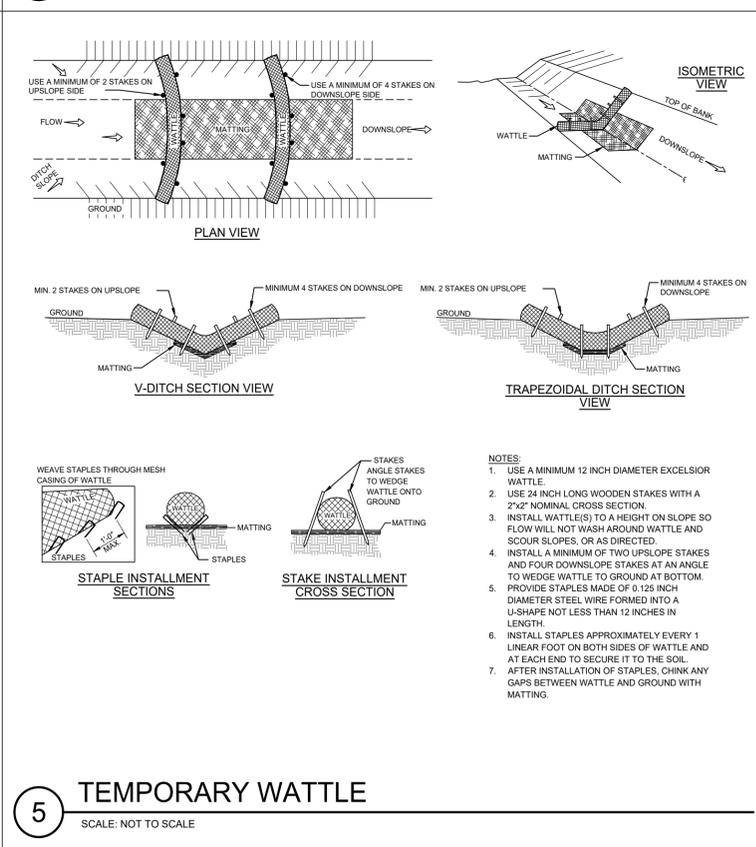
2 TEMPORARY SILT FENCE
SCALE: NOT TO SCALE



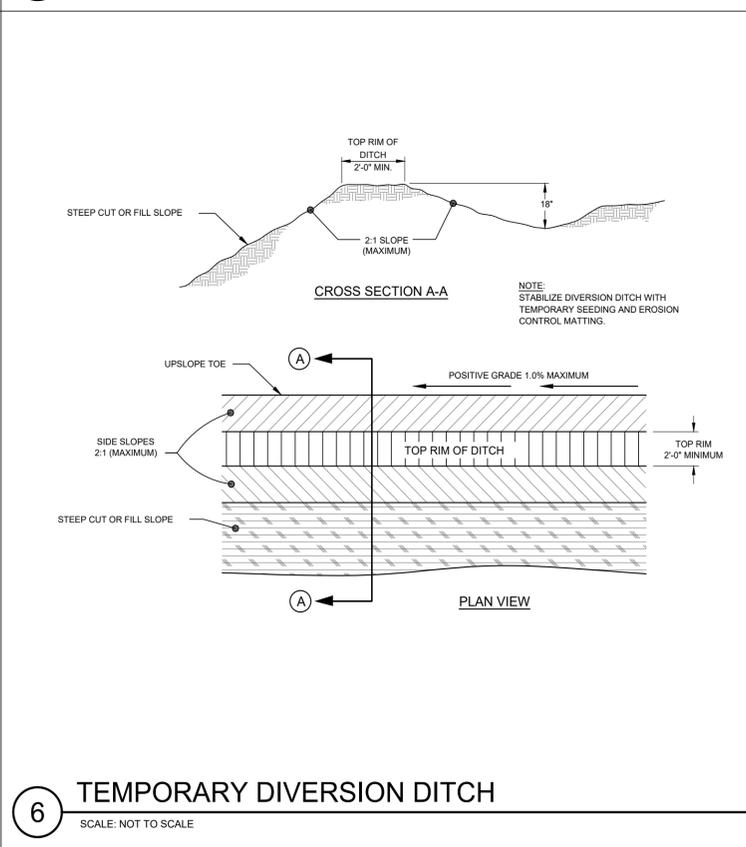
3 TEMPORARY CONSTRUCTION ENTRANCE
SCALE: NOT TO SCALE



4 PIPE OUTLET PROTECTION (NO WELL DEFINED CHANNEL)
SCALE: NOT TO SCALE



5 TEMPORARY WATTLE
SCALE: NOT TO SCALE



6 TEMPORARY DIVERSION DITCH
SCALE: NOT TO SCALE

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PROJECT OWNER

**DR. SARA LEWIS DVM
MR. JOHN LEWIS
VET CROSS**

STAMP

NOT FOR CONSTRUCTION

ISSUE FOR REVIEW

ISSUE DATE
DECEMBER 01, 2023

REVISIONS

NO.	DESCRIPTION	DATE
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PRINCIPAL IN CHARGE
N. LAURETTA, P.E., LEED AP

PROJECT MANAGER
N.J.L.

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N.J.L.

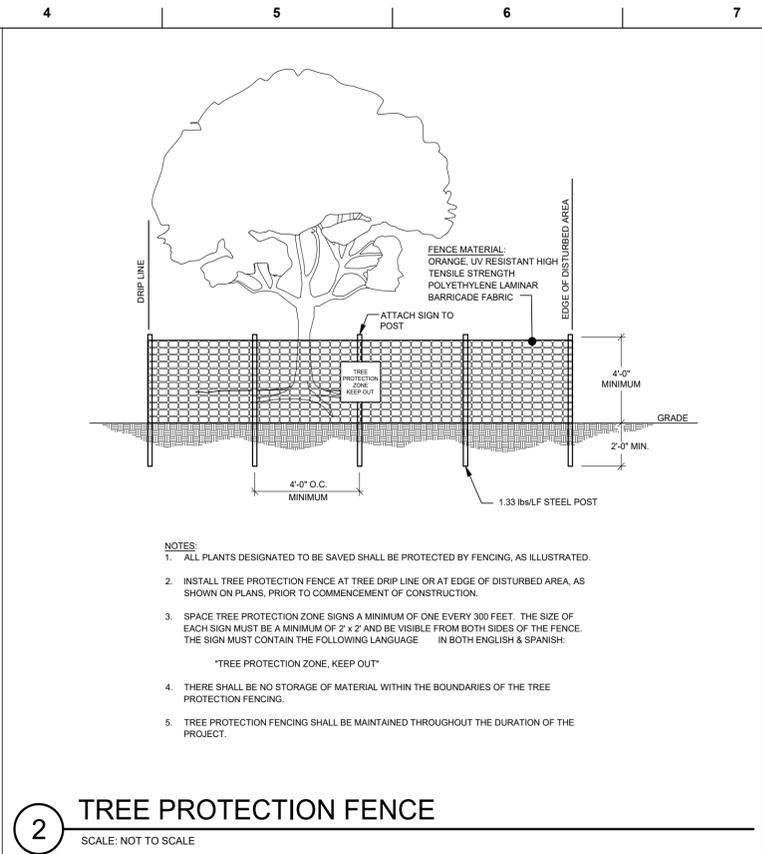
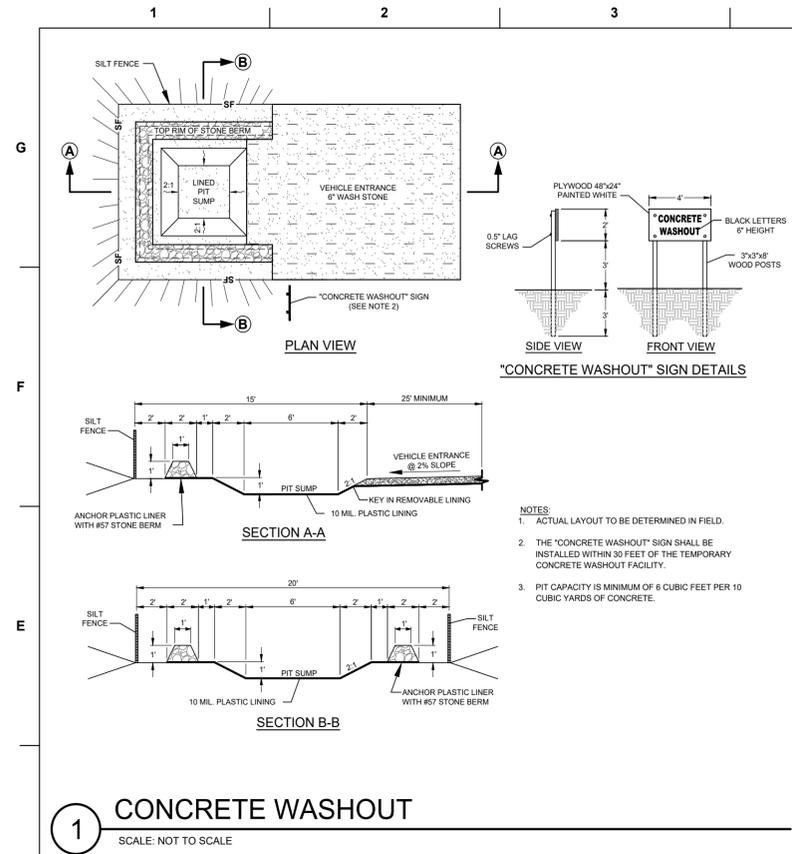
PROJECT ADDRESS
HAMPSTEAD, NC

PROJECT NUMBER
1009.01

SHEET TITLE
SEDIMENT & EROSION CONTROL DETAILS

SHEET NUMBER
CE501

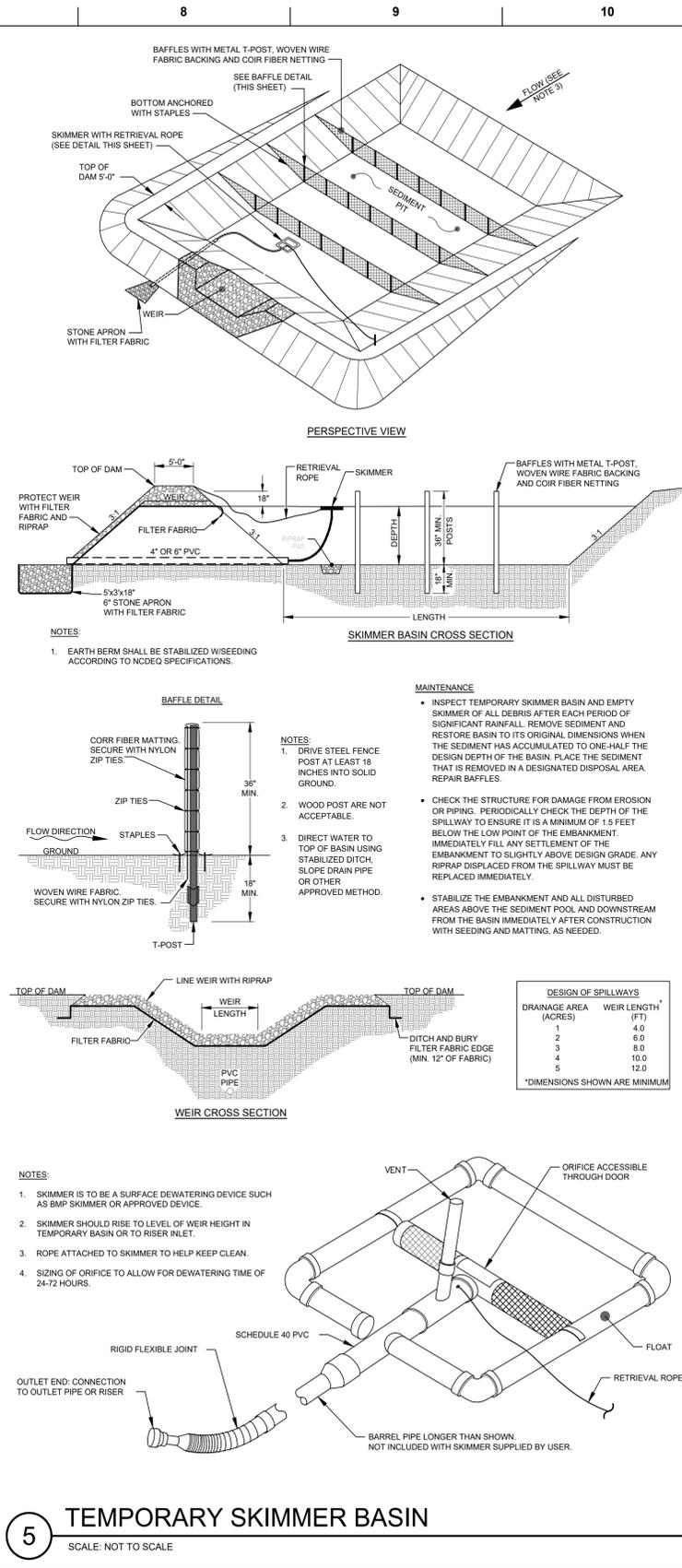
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EROSION CONTROL MAINTENANCE PLAN:

- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AND REPAIRED, AS NECESSARY, EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF EVERY ONE-HALF (0.5) INCH OR GREATER RAINFALL.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP. THE SEDIMENT FENCE WILL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
- ALL AREAS WILL BE FERTILIZED, RESEEDING AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
- STONE CONSTRUCTION ENTRANCE TO BE CLEANED WHEN SEDIMENT ACCUMULATIONS ARE VISIBLE OR SEDIMENT IS TRACKED ON TO THE PAVEMENT. STONE WILL BE PERIODICALLY TOP DRESSED WITH 2 INCHES OF #4 STONE TO MAINTAIN 6 INCH DEPTH. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS REQUIRED.
- INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/4 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIPRAP LINES IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.
- INSPECT TEMPORARY SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2" OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. PLACE REMOVED SEDIMENT IN AN AREA WITH SEDIMENT CONTROLS.
- CHECK THE SEDIMENT BASIN EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE. AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.
- INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEAN OUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGN STORAGE DEPTH. AFTER THE CONTRIBUTING DRAINAGE AREAS HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT.
- INSPECT THE SKIMMER FOR CLOGGING. PULL THE SKIMMER TO THE SIDE OF THE BASIN AND REMOVE ANY DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER AND THE ARM OR BARREL PIPE FOR CLOGGING; IF CLOGGED, REMOVE THE DEBRIS.
- INSPECT PERMANENT AND TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.
- INSPECT SILT FENCE ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP. THE SEDIMENT FENCE WILL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
- INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE. OF IF STONES HAVE BEEN DISLOADED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE. REPAIR OR REPLACE RIPRAP AS REQUIRED TO MAINTAIN EFFECTIVENESS. CONTROL WEED AND BRUSH GROWTH AS NEEDED.
- IF PROPOSED STORMWATER CONTROL MEASURES ARE USED AS SEDIMENT BASINS DURING CONSTRUCTION, THEN PRIOR TO SCM CERTIFICATION THE CONTRACTOR SHALL CLEAN THE SEDIMENT FROM THE SCM, INSTALL FOREBAY BERM, INSTALL EMERGENCY OUTFALL MEASURES, AND GENERALLY BRING THE SCM INTO COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND NCDEQ RULES AND REGULATIONS.
- INSPECT DIVERSION DIKES ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIKE. CHECK OUTLETS, AND MAKE TIMELY REPAIRS AS NEEDED TO AVOID GULLY FORMATION. WHEN THE AREA ABOVE THE TEMPORARY DIVERSION DIKE IS PERMANENTLY STABILIZED, REMOVE THE DIKE, AND FILL AND STABILIZE THE CHANNEL TO BLEND WITH THE NATURAL SURFACE.
- SILT FENCE OUTLETS ARE TO BE INSPECTED ONCE A WEEK AND AFTER EACH RAIN EVENT. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE STONE BECOME CLOGGED WITH SEDIMENT, IT SHALL BE CLEANED AND/OR REPAIRED PRIOR TO THE NEXT STORM EVENT. IF WASHOUT BETWEEN THE STONE AND SILT FENCE OCCURS, THE AREAS SHALL BE REPAIRED IMMEDIATELY.

4 NOTES
SCALE: NOT TO SCALE



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N/L
DRAWN BY
N/L
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HAMPSTEAD, NC

PROJECT NUMBER
1009.01

SHEET TITLE
SEDIMENT & EROSION CONTROL DETAILS

SHEET NUMBER
CE502

TRC SUBMITTAL

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

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

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

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

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

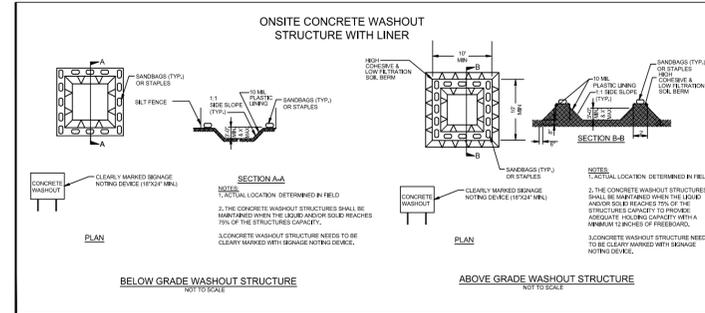
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

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



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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

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1	ISSUE FOR REVIEW	12/01/2023

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

SECTION A: SELF-INSPECTION

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

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

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

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

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

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

3. Documentation to be Retained for Three Years

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

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

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none">A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].Division staff may waive the requirement for a written report on a case-by-case basis.

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

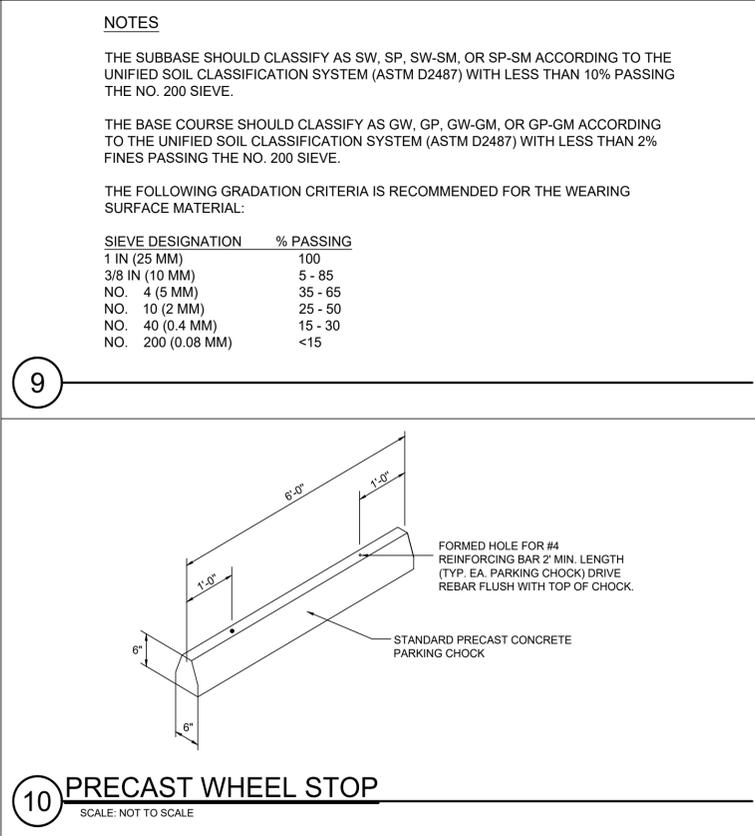
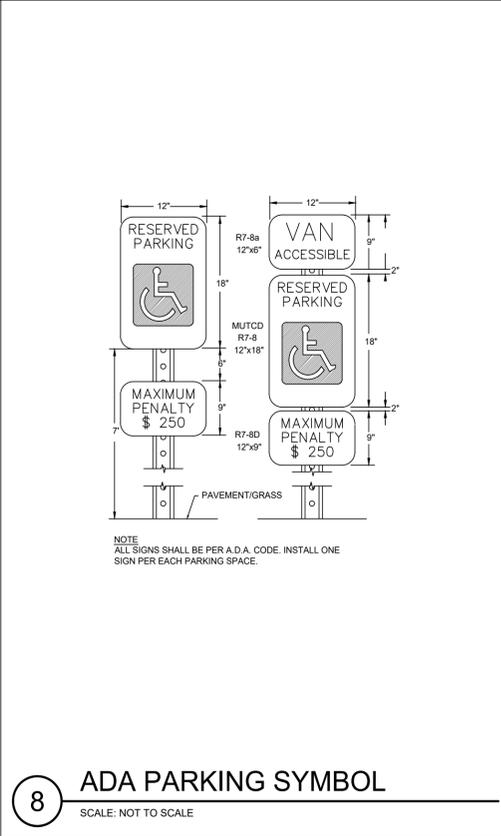
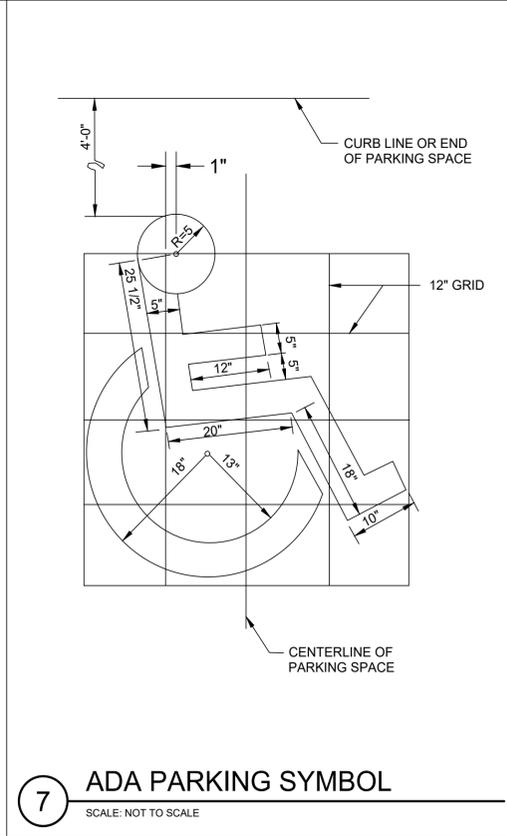
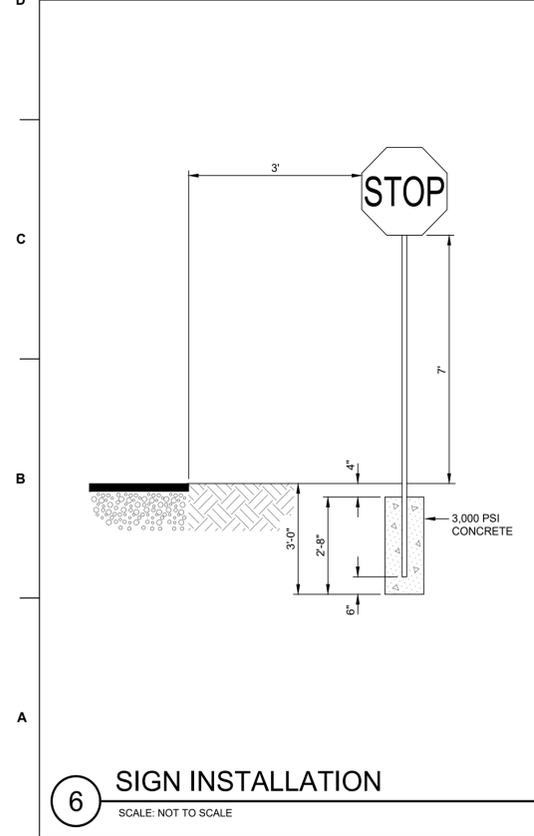
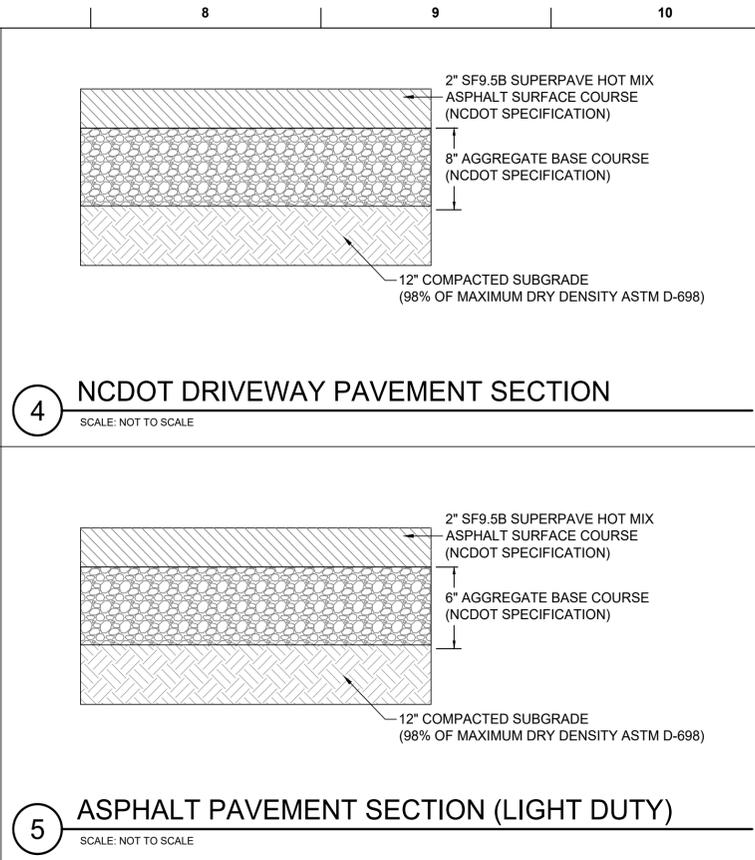
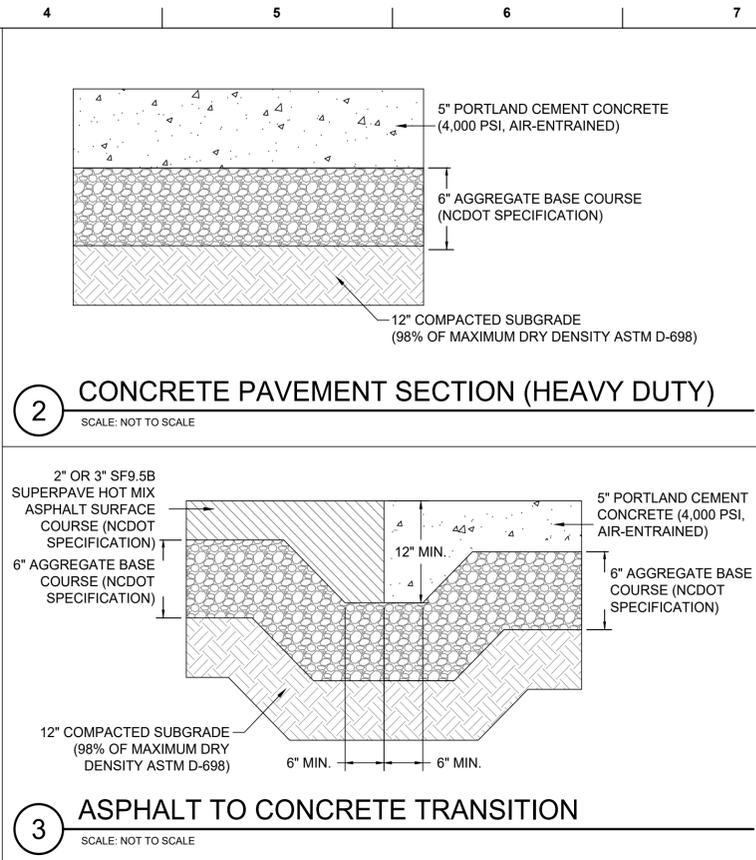
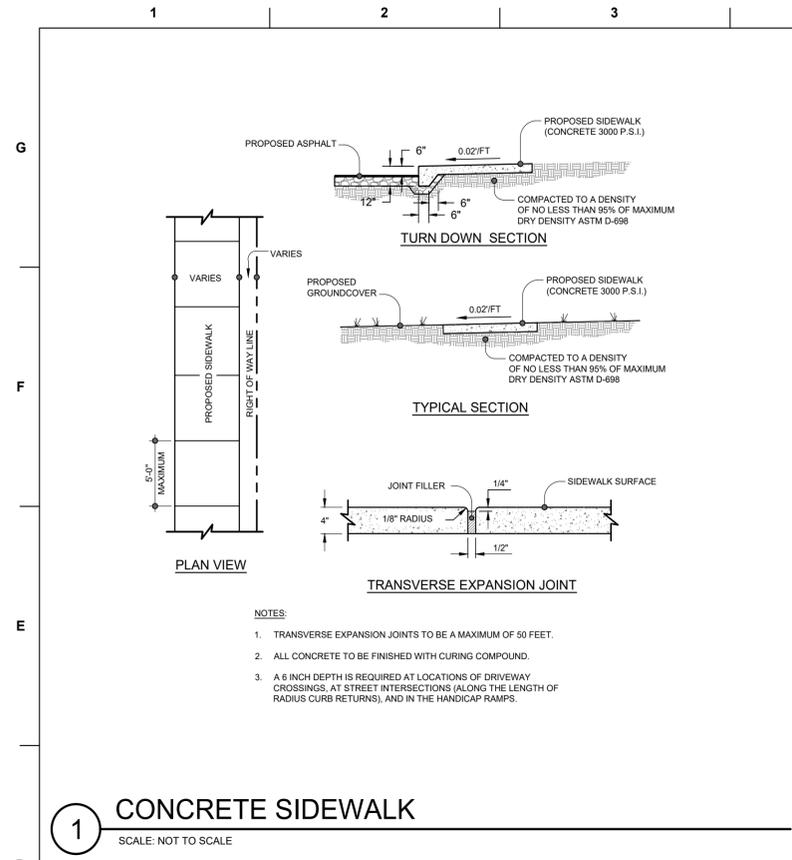
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw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

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

ENGINEER
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NC License No. P-1944
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PROJECT OWNER
**DR. SARA LEWIS DVM
MR. JOHN LEWIS
VET CROSS**
STAMP
NOT FOR CONSTRUCTION
ISSUE FOR REVIEW
ISSUE DATE
DECEMBER 01, 2023
REVISIONS
PRINCIPAL IN CHARGE
N. LAURETTA, PE, LEED AP
PROJECT MANAGER
NHL
DRAWN BY
NHL
PROJECT ADDRESS
HAMPSTEAD, NC
PROJECT NUMBER
1009.01
SHEET TITLE
SEDIMENT & EROSION CONTROL DETAILS
SHEET NUMBER
CE504
TRC SUBMITTAL



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ISSUE DATE
DECEMBER 01, 2023

REVISIONS

NO.	DESCRIPTION
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PRINCIPAL IN CHARGE
N. LAURETTA, P.E., LEED AP

PROJECT MANAGER
N.J.L.

DRAWN BY
N.J.L.

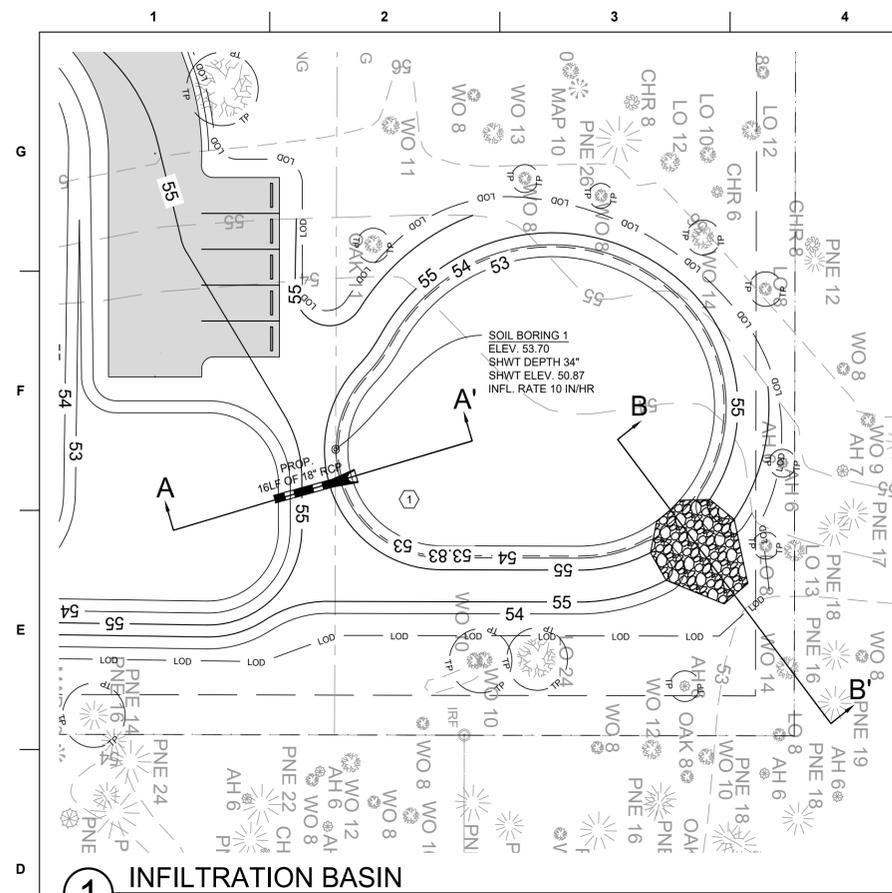
PROJECT ADDRESS
HAMPSTEAD, NC

PROJECT NUMBER
1009.01

SHEET TITLE
SITE DETAILS

SHEET NUMBER
CS501

TRC SUBMITTAL



1 INFILTRATION BASIN
SCALE: 1" = 20'

RETURN EVENT	RAINFALL DEPTH (IN.)
2-YEAR	4.64
10-YEAR	7.20
25-YEAR	9.04
50-YEAR	10.70
100-YEAR	12.50

PRE-DEVELOPMENT CURVE NUMBER (BASIN 1)				
COVER TYPE	AREA (AC)	%	CN	WTD. CN
WOODS - FAIR (A)	1.9	82	49	40.30
WOODS - FAIR (D)	0.41	18	84	14.91
TOTAL	2.31	82		55.21
				USE CN = 55

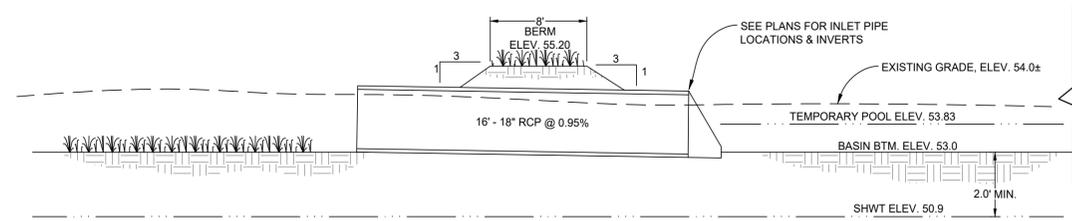
POST-DEVELOPMENT CURVE NUMBER (BASIN 1)				
COVER TYPE	AREA (AC)	%	CN	WTD. CN
WOODS - FAIR (A)	1.45	63	49	30.76
WOODS - FAIR (D)	0.17	7	84	6.18
IMPERVIOUS	0.69	30	98	29.27
TOTAL	2.31	100		66.21
				USE CN = 66

SITE DATA (BASIN 1)		
TOTAL DA	2.31	ACRE
ON-SITE DRAINAGE AREA	100,818	SF
OFF-SITE DRAINAGE AREA	0	SF
IMPERVIOUS	0.83	ACRE
ON-SITE	24,052	SF
ON-SITE (FUTURE)	12,000	SF
IMPERVIOUS COVER	35.8%	

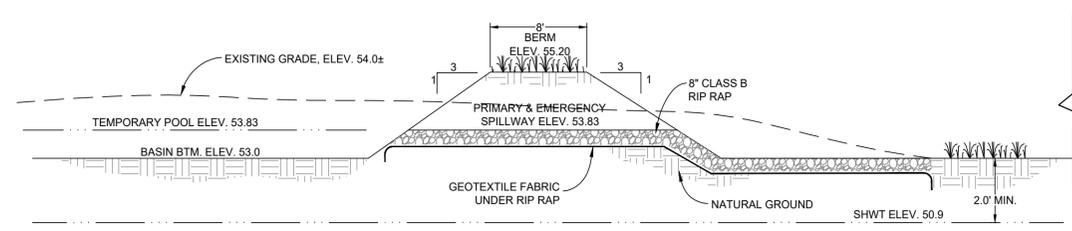
TREATMENT VOLUME		
RUNOFF COEFFICIENT, RV	0.372	IN/IN
REQUIRED 1.5" RUNOFF VOLUME	4,686	CF
PROVIDED TREATMENT VOLUME	4,792	CF

DRAWDOWN		
REPORTED SOIL PERMEABILITY	10.0	IN/HR
DRAWDOWN SOIL PERMEABILITY	5.0	IN/HR
INFILTRATION AREA	5,433	SF
DRAWDOWN INFILTRATION RATE	0.629	CFS
DRAWDOWN OF 1.5" TREATMENT VOLUME	0.086	DAYS

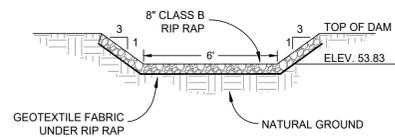
POA	ROUTING SUMMARY													
	2-YEAR				10-YEAR				25-YEAR				50-YEAR	100-YEAR
	PRE	POST	Δ (%)	WSE	PRE	POST	Δ (%)	WSE	PRE	POST	Δ (%)	WSE	WSE	WSE
DA-1	1.09	0.00	0	53.52	3.67	2.90	79	54.15	5.95	6.32	106	54.38	54.54	54.70



INFILTRATION BASIN SECTION (A-A')
NOT TO SCALE



INFILTRATION BASIN OUTLET STRUCTURE SECTION (B-B')
NOT TO SCALE



PRIMARY & EMERGENCY SPILLWAY
NOT TO SCALE

STAGE/STORAGE				
CONTOUR	CONTOUR AREA (SF)	INCREMENTAL VOLUME (CF)	CUMULATIVE VOLUME, S (CF)	
53.0	5,433	0	0	BOTTOM OF BASIN
53.5	5,842	2,819	2,819	
53.83	6,120	1,974	4,792	TEMPORARY POOL
54.0	6,265	1,053	5,845	
55.0	7,153	6,709	12,554	TOP OF BASIN

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DECEMBER 01, 2023

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N. LAURETTA, P.E., LEED AP

PROJECT MANAGER

NIL

DRAWN BY

NIL

PROJECT ADDRESS

HAMPSTEAD, NC

PROJECT NUMBER

1009.01

SHEET TITLE

STORM DRAINAGE & GRADING DETAILS

SHEET NUMBER

CG501

TRC SUBMITTAL

PCU STANDARD NOTES

1. A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE BEGINNING WORK. THE MEETING MUST BE SCHEDULED WITH PENDER COUNTY UTILITIES (PCU) AT LEAST ONE WEEK IN ADVANCE. ATTENDEES MUST INCLUDE PCU, THE UTILITY CONTRACTOR'S SUPERINTENDENT, THE SUPPLIER, AND THE CONSULTING ENGINEER.
2. ALL MATERIALS USED SHALL CONFORM TO PENDER COUNTY UTILITIES REQUIREMENTS. NON-CONFORMING MATERIAL WILL NOT BE ACCEPTED FOR FINAL CERTIFICATION.
3. ALL PIPE SHALL BE C900 CR18 PVC, UNLESS OTHERWISE NOTED (SEE PCU STANDARD DETAIL). PCU MUST APPROVE THE USE OF DIP IN THE FIELD BEFORE INSTALLATION. PIPE SHOULD NEVER BE UNDER THE ROADWAY, PARKING LOT, OR SIDEWALKS. PENDER COUNTY UTILITIES DOES NOT ALLOW SIZE-ON-SIZE TAPS.
4. PCU STANDARD WATERLINE PIPE RESTRAINING METHOD IS MEGA LUGS. AT A MINIMUM ALL FITTINGS, VALVES, ETC. MUST BE RESTRAINED (SEE PCU STANDARD DETAIL).
5. PCU MUST INSPECT CASING INSTALLATIONS PRIOR TO BACKFILL. PCU MUST WITNESS PRESSURE TESTS, AND WITHDRAWAL OF BACTERIOLOGICAL SMPLES. CONTACT PENDER COUNTY UTILITIES INSPECTOR TO SCHEDULE.
6. CLOSE-OUT DOCUMENTS WHICH MUST BE RECEIVED PRIOR TO PCU SIGNING THE NCDEQ PWSS APPLICANT CERTIFICATION INCLUDE: BACTERIOLOGICAL TESTS, PRESSURE TESTS, DEED OF DEDICATION, AFFIDAVIT/RELEASE OF LIENS, WARRANT, AND RECORDS DRAWINGS (PDF & GIO REFERENCED CAD).
7. AN 18-MONTH WARRANTY PERIOD APPLIES TO ALL WATERLINE CONSTRUCTION. THIS WARRANTY PERIOD DOES NOT BEGIN UNTIL FINAL APPROVAL OF THE SYSTEM HAS BEEN RECEIVED FROM NCDEQ PWSS.

PCU
PENDER COUNTY UTILITIES
605 E FREMONT STREET
PO BOX 995, BURGAW, NC 28425

STANDARD NOTES
PCU WATER SYSTEMS
VERSION #4 – OCTOBER 2023

PIPE CASING SUPPORT DETAIL

NOTES:

1. PIPE SUPPORTS TO BE PLACED TO PROVIDE PROPER SPACING, ALIGNMENT, AND GRADE AS SPECIFIED. OIL, GREASE, OR PETROLEUM PRODUCT MAY NOT BE USED AS LUBRICANT.
2. WHEN CARRIER PIPE REQUIRES FULL PIPE SECTIONS, AN OVER BELL RESTRAINT SYSTEM SHALL BE UTILIZED.

DETAIL: PIPE CASING SUPPORT DETAIL
SCALE: NOT TO SCALE
CFPUA DETAIL DATE: 01/01/2023

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: **WS-8**
SHEET NO: -

MIN. 1:1 SLOPE FROM EDGE OF PAVEMENT, 5' MINIMUM

NOTES:

1. CASING WILL BE INSTALLED AT LINE AND GRADE SHOWN ON INDIVIDUAL PROFILE FOR EACH CROSSING. BORING/JACKING TO LINE AND GRADE IS REQUIRED.
2. TRACER WIRE SHALL BE TAPED AT 12' INTERVALS THROUGHOUT THE CASING JOINT.
3. PRESSURE AND NON-PRESSURE PIPING THROUGH CASING SHALL BE RESTRAINED.
4. SEE DETAIL WS-8 FOR PIPE CASING SUPPORT DETAILS.

DETAIL: TYPICAL BORING & JACKING DETAIL
SCALE: NOT TO SCALE
CFPUA DETAIL DATE: 01/01/2023

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: **WS-7**
SHEET NO: -

PIPE EMBEDMENT TYPES

COMPACTION NOTES:

1. ALL ZONES: 95% STD EFFORT PER ASTM D698, EXCEPT AS STATED IN COMPACTION NOTE 2.
2. 12" SUBGRADE UNDER PAVEMENT: 98% STD EFFORT PER ASTM D698.
3. BEDDING REQUIREMENTS FOR SEWER FORCE MAINS AND WATER MAINS WITHIN TYPE A THROUGH TYPE S CONDITIONS, SHALL BE FOLLOWED IF IT HAS BEEN DETERMINED THAT UNSUITABLE SOILS EXIST WITHIN THE EXCAVATED TRENCH. OTHERWISE BEDDING FOR SEWER FORCE MAINS AND WATER MAINS MAY BE CLASS I OR CLASS II.

DETAIL: PIPE EMBEDMENT TYPES
SCALE: NOT TO SCALE
CFPUA DETAIL DATE: 01/01/2023

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: **WS-4**
SHEET NO: -

SHORT SIDE / LONG SIDE LOW PRESSURE SEWER CONNECTION

TEE OR SADDLE:

USE TEE TO CONNECT TO 2" MAINS.
-2" MAINS TO BE POLY SDR 9 CTS (SAME AS LATERAL).
-TEE: CTS COMPRESSION ON BOTH RUNS X FIPT BRANCH. FORD T441-777-AWT-NL BRASS TEE OR EQUAL.
USE SADDLE TO CONNECT TO MAINS LARGER THAN 2".

NOTES:

1. REFER TO CFPUA SPECIFICATIONS AND CFPUA MSM FOR PIPING MATERIAL AND SIZE REQUIREMENTS.
2. TRACER WIRE SHALL BE INSTALLED ON FORCE MAIN AND SERVICE LINE TO TANK.
3. THE HOMEOWNER IS RESPONSIBLE FOR THE GRAVITY CONNECTION FROM THE STRUCTURE TO THE GRINDER PUMP STATION AND FOR THE ELECTRICAL WIRING TO PROVIDE POWER TO THE PUMP PANEL.
4. SERVICES SHALL BE PERPENDICULAR FROM MAIN TO VALVE BOX.
5. SST INSERT STIFFENER SHALL BE USE ON ALL CTS COMPRESSION CONNECTIONS.

DETAIL: SHORT SIDE / LONG SIDE LOW PRESSURE SEWER CONNECTION
SCALE: NOT TO SCALE
CFPUA DETAIL DATE: 01/01/2023

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: **LP-3**
SHEET NO: -

THRUST BLOCK

SIZE	90 BENDS		45 BENDS		22-1/2 BENDS		TEES/PLUGS		45 VERT. BENDS
	A	B	A	B	A	B	A	B	
3"	8"	6"	5"	6"	3"	7"	6"	8"	27"
4"	8"	9"	5"	8"	3"	11"	6"	9"	28"
6"	14"	11"	9"	9"	8"	8"	12"	9"	36"
8"	16"	16"	12"	12"	10"	13"	14"	13"	42"
10"	18"	22"	15"	14"	14"	16"	18"	15"	50"
12"	20"	28"	18"	17"	16"	18"	22"	18"	62"
14"	26"	29"	21"	19"	18"	18"	26"	20"	72"
16"	33"	29"	25"	21"	20"	21"	32"	21"	83"
18"	40"	30"	28"	24"	22"	23"	36"	24"	88"

NOTES:

1. THRUST BLOCKING IS NOT PERMITTED EXCEPT IN SPECIAL INSTALLATIONS WHERE DESIGNED BY ENGINEER AND APPROVED BY CFPUA.
2. ALLOW 7-DAY MINIMUM CONCRETE CURE TIME BEFORE PLACING LOAD ON THRUST BLOCK.
3. BASED ON 150 PSI TEST PRESSURE AND 2,000 PSF SOIL BEARING CAPACITY.
4. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
5. PIPE & FITTINGS TO BE WRAPPED IN 10 MIL PLASTIC PRIOR TO THRUST BLOCK BEING POURED.

DETAIL: THRUST BLOCK
SCALE: NOT TO SCALE
CFPUA DETAIL DATE: 01/01/2023

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: **WS-13**
SHEET NO: -

TRACER WIRE DETAIL

NOTES:

1. TRACER WIRE SHALL BE INSTALLED PER THE CFPUA MSM.
2. WIRE SHALL BE STRAPPED TO ALL PVC PIPING WITH ADHESIVE TAPE AT 12 FOOT INTERVALS.
3. SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH ADHESIVE TAPE.
4. ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KITS.

DETAIL: TRACER WIRE DETAIL
SCALE: NOT TO SCALE
CFPUA DETAIL DATE: 01/01/2023

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: **WS-6**
SHEET NO: -

VALVE DETAIL

NOTES:

1. TRACER WIRE SHALL PENETRATE VALVE BOX THROUGH DRILLED HOLE APPROX. 6" BELOW GRADE WITH MINIMUM 2-FOOT EXTRA LENGTH COILED IN THE VALVE BOX. SEE WS-6.

DETAIL: VALVE DETAIL
SCALE: NOT TO SCALE
CFPUA DETAIL DATE: 01/01/2023

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: **WS-5**
SHEET NO: -

ENGINEER

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PROJECT OWNER

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MR. JOHN LEWIS
VET CROSS**

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ISSUE DATE
DECEMBER 01, 2023

REVISIONS

NO.	DESCRIPTION	DATE

PRINCIPAL IN CHARGE
N. LAURETTA, P.E., LEED AP

PROJECT MANAGER
NIL

DRAWN BY
NIL

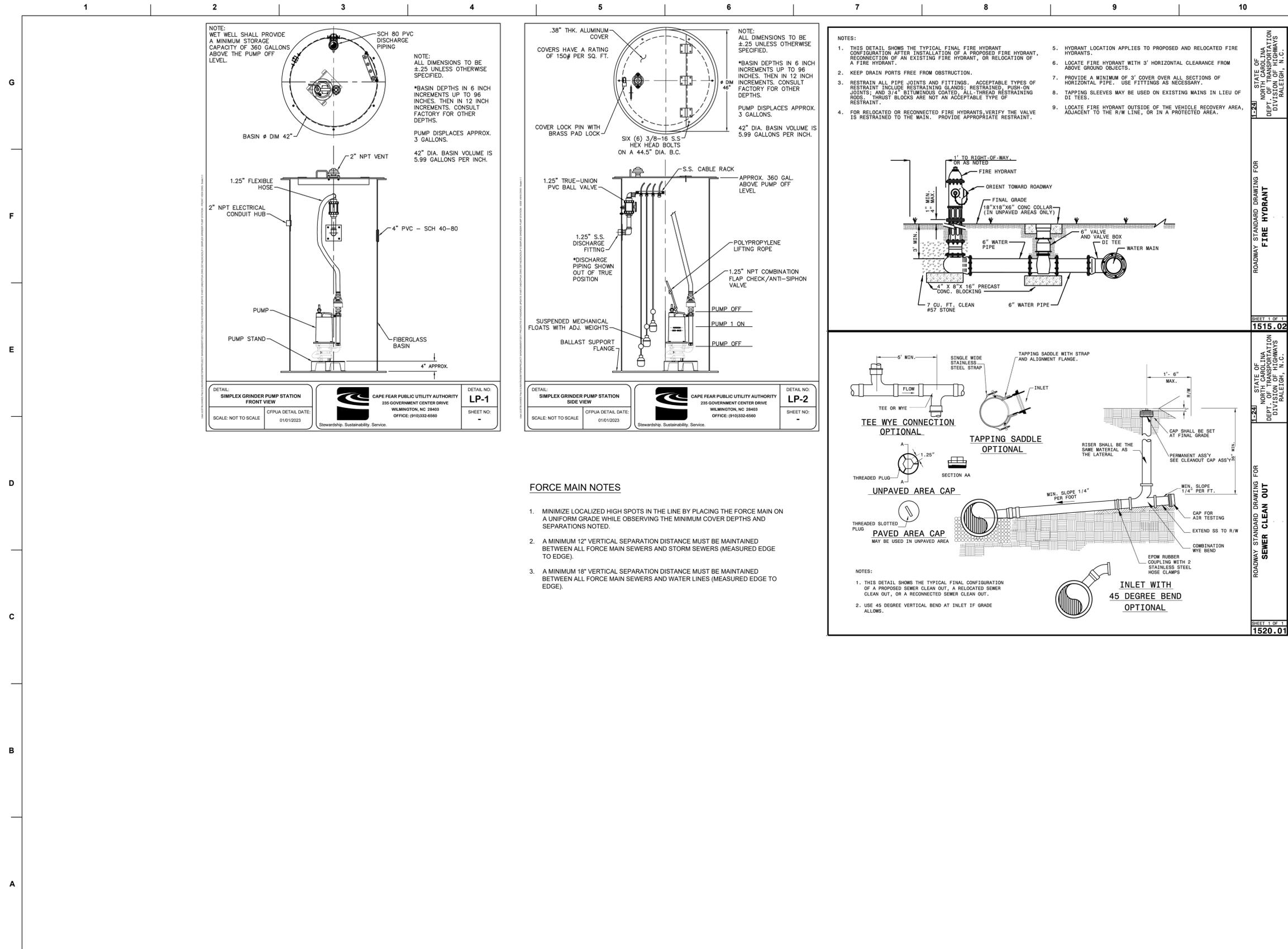
PROJECT ADDRESS
HAMPSTEAD, NC

PROJECT NUMBER
1009.01

SHEET TITLE
UTILITY DETAILS

SHEET NUMBER
CU501

TRC SUBMITTAL



FORCE MAIN NOTES

1. MINIMIZE LOCALIZED HIGH SPOTS IN THE LINE BY PLACING THE FORCE MAIN ON A UNIFORM GRADE WHILE OBSERVING THE MINIMUM COVER DEPTHS AND SEPARATIONS NOTED.
2. A MINIMUM 12" VERTICAL SEPARATION DISTANCE MUST BE MAINTAINED BETWEEN ALL FORCE MAIN SEWERS AND STORM SEWERS (MEASURED EDGE TO EDGE).
3. A MINIMUM 18" VERTICAL SEPARATION DISTANCE MUST BE MAINTAINED BETWEEN ALL FORCE MAIN SEWERS AND WATER LINES (MEASURED EDGE TO EDGE).

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 N. LAURETTA, P.E., LEED AP

PROJECT MANAGER
 NJL

DRAWN BY
 NJL

PROJECT ADDRESS
 HAMPSTEAD, NC

PROJECT NUMBER
 1009.01

SHEET TITLE
UTILITY DETAILS

SHEET NUMBER
CU502

TRC SUBMITTAL



Pender County American Legion

TO: Technical Review Committee
FROM: Tucker Cherry
DATE: January 4, 2024
SUBJECT: SDP 2023-370

SUMMARY:

Major Site Development Plan application for the development of a building for American Legion meetings and associated activities

ACTION REQUESTED:

Case to be reviewed by the TRC.

ATTACHMENTS:

1. Application
2. Site Plan

SURVEY REFERENCE:

DEED BOOK 4785 AT PAGE 2722,
PIN: 3282-69-0669-0000 & 3282-69-1881-0000
MAP BOOK 14 AT PAGE 81,
PENDER COUNTY REGISTRY

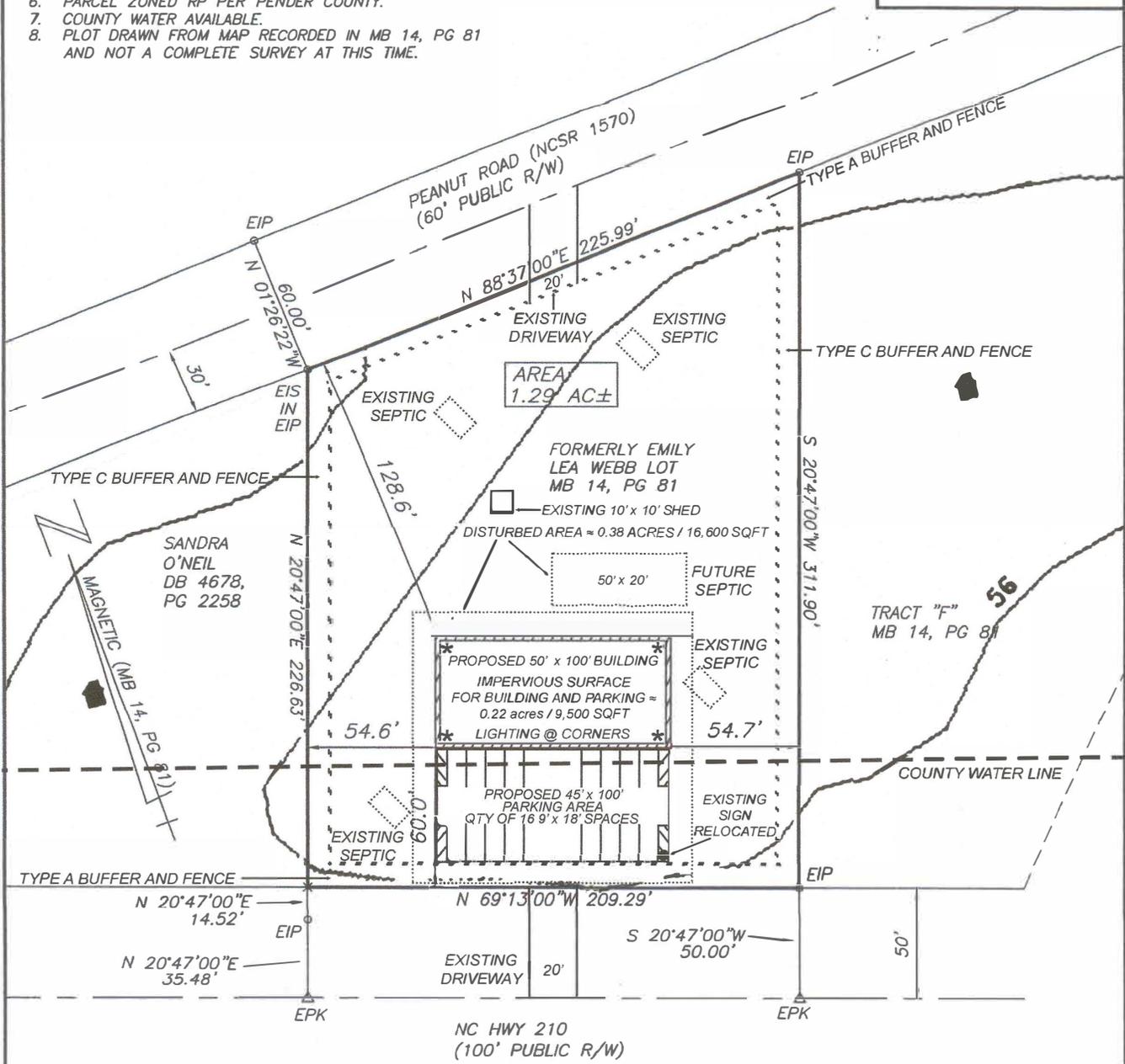
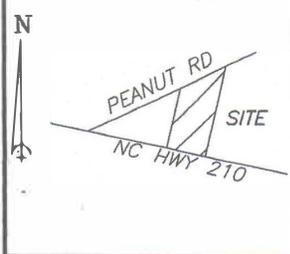
NOTES:

1. THIS PROPERTY DOES NOT LIE WITHIN FLOOD HAZARD AREA PER FEMA FIRM PANEL 3720 3282 00 J, DATED FEBRUARY 16, 2007.
2. CORNERS ARE MARKED AS NOTED ON MAP.
3. ALL BEARINGS ARE MAGNETIC (MB 14, PG 81).
4. ALL DISTANCES ARE HORIZONTAL FIELD MEASUREMENTS.
5. AREA COMPUTED BY THE COORDINATE METHOD.
6. PARCEL ZONED RP PER PENDER COUNTY.
7. COUNTY WATER AVAILABLE.
8. PLOT DRAWN FROM MAP RECORDED IN MB 14, PG 81 AND NOT A COMPLETE SURVEY AT THIS TIME.

LEGEND:

- EIR (EXISTING IRON ROD)
- EIP (EXISTING IRON PIPE)
- ▲ ERRS (EXISTING RAILROAD SPIKE)
- ▲ MAG (EXISTING "MAG" NAIL)
- ▲ EPK (EXISTING "P/K" NAIL)
- PROPERTY LINE
- - - PROPERTY LINE NOT SURVEYED
- - - NON-SURVEYED LINE
- ROAD RIGHT OF WAY
- - - DITCH OR BRANCH

VICINITY MAP (N.T.S)



PROPOSED PLOT PAN
FOR
AMERICAN LEGION POST # 167

OF 756 NC HWY 210 W, HAMPSTEAD NC

TOPSAIL TOWNSHIP - PENDER COUNTY - NORTH CAROLINA
SCALE: 1" = 20' FEBRUARY 2023

By my signature and seal below I attest that I have reviewed this plan and in my Professional Opinion I certify that it meets the Pender County requirements for a Major Site Development Plan.

I, Daniel H. Thompson, PLS, certify that this plat was drawn under my supervision from an actual field survey made under my supervision from information as noted hereon; that the boundaries not surveyed are clearly indicated as dashed lines; that the ratio of precision as calculated, is 1:10,000+ and is correct to the best of my knowledge and belief. Witness my Original Signature, License Number and Seal this 27th day of February, AD, 2023.

Daniel H. Thompson
Daniel H. Thompson, PLS
NC License No. L-2174



DANIEL H. THOMPSON, PLS
THOMPSON SURVEYING CO. P.A.
209 S. WALKER STREET
BURGAW, NC 28425
(910) 259-3427
DANIEL H. THOMPSON, PLS
NC LICENSE No. L-2174
FIRM No. C-0235
FILE: ALP167



Pender County Planning and Community Development

Planning Division
805 S. Walker Street
PO Box 1519
Burgaw, NC 28425



Phone: 910-259-1202
Fax: 910-259-1295
www.pendercountync.gov

MAJOR AND MINOR SITE DEVELOPMENT APPLICATION

THIS SECTION FOR OFFICE USE			
Date: 12/04/2023	Permit Number:	Permit Fee:	Invoice Number: 00037258
*Zoning Approval ONLY: YES / NO		Final Zoning Compliance Approved: YES / NO / N/A	
Type of Site Development Plan:	<input checked="" type="checkbox"/> Major	<input type="checkbox"/> Minor	
SECTION 1: GENERAL INFORMATION			
Applicant's Name:	American Legion Post 167	Property Owner's Name:	Same as at Left
Applicant's Address:	16660 US Hwy 17/PO Box 337	Property Owner's Address:	↓
City, State, & Zip	Hampstead, NC 28443	City, State, & Zip	
Phone Number:	510-210-3661	Phone Number:	
Email Address:	pcordeiro@gmail.com	Email Address:	
Legal relationship of applicant to landowner:			
SECTION 2: PROJECT INFORMATION			
PIN (Property Id #):	3282-69-0669-0000 3282-69-1881-0000	Total property acreage:	1.26
Zoning:	RP	Acreage to be disturbed:	< 1.0
Water Provider:	Pender County	Wastewater Provider:	On-Site
Directions to Site:	Lot between Peanut Rd & NC Hwy 210 in vicinity of day care.		
Lot Size:	1.26	Sq Ft of Building:	5,000
Building Height:	12'		
Setbacks	Front:	Side:	Rear:
NAICS Code/Use:	American Legion meetings & events		
Business Name:	American Legion		
Describe activities to be undertaken on project site:	Above		
Ownership:	Number of Employees:	Number of Members:	Seating Capacity:
<input checked="" type="checkbox"/> Private <input type="checkbox"/> Public	NA	120	100

**If the applicant is not the owner of the property, a notarized letter from the property owner may be required*

15-20 at meetings Page 1

**Zoning approval is for the use being proposed ONLY, other department approvals may be required i.e. Fire Marshal, Environmental Health, Permitting, etc...*

SECTION 4: ADDITIONAL COMMENTS	

SECTION 5: SIGNATURES			
Applicant's Signature	R. Mark Walton	Date:	12/1/23
Applicant's Name Printed	R. Mark Walton	Date:	↓
Owner's Signature	↓	Date:	↓
Owner's Name Printed	↓	Date:	↓
Planning Staff:		Date:	↓

Pender County Planning and Community Development

805 S. Walker Street
PO Box 1519
Burgaw, NC 28425



Phone: 910-259-1202
Fax: 910-259-1295
www.pendercountync.gov

Major Site Development Plan Submission

Applications will be considered for the Technical Review Committee hearing and reviewed by Staff only when deemed complete. The application will be regarded as incomplete until the following items are received by the Planning and Community Development Staff.

1. **Pre-submittal Meeting**
Date of Meeting _____
2. **Signed Application**
3. **Payment**
\$250 *Two 8 1/2 x 11*
4. **Paper Plan Sets**
~~Two (2) 24 x 36, Fifteen (15) 11 x 17~~
5. **Digital Submission**
For all documents submitted in paper copy, bring a digital copy with paper submission.
6. **Adjacent Property List**
A list of names and addresses, as obtained from the county tax listings and tax abstract, to the owners of all properties located within 500-feet of the perimeter of the project bounds.
7. **Adjacent Property Envelopes**
The applicant shall provide a set of business envelopes addressed to each of the owners of all properties located within 500-feet of the perimeter of the project bounds and accompanied with the amount of postage required for first class postage.
8. *NA* **Permits**
Include any permits issued on the project including but not limited to: environmental, traffic, utility, or site specific conditions.
9. **Site Plan Requirements**
A prepared site plan in accordance with the Unified Development Ordinance standards Section 6.3, Pender County Collector Street Plan, Pender County Transportation Plan, other approved State of Federal Transportation Improvement Plan, or any other adopted plan in Pender County.
(See Major Site Development Checklist)

I certify that all information presented in this application is accurate to the best of my knowledge.

Signature of Applicant: *R. Mark Walton*

Date: *11/30/2023*

Printed Name: *R. Mark Walton*

Staff Initials:	_____
Date:	_____

Specific requirements can be found in Section 6.3 of the Pender County Unified Development Ordinance

Major Site Development Plan Specific Requirements

1. Major Site Development Application Submittal

- Site Plan (per Section 6.3)
 - ✓ Scale
 - ✓ North Arrow
 - ✓ All property information (zoning, setbacks, PIN #)
 - ✓ Adjacent property info (owner, zoning, use, PIN #)
 - NA References to any previously approved plans
 - ✓ Utility providers
 - ✓ All existing and proposed structures
 - ✓ Buffering (Section 8.2.6) & Landscaping (8.3)
 - ✓ Parking (Section 7.10)
 - ✓ Lighting
 - NA Cross Access Connections (Section 7.4.4)
 - ✓ AM/PM Peak Hour Trip Calculations (TIA required with 100 AM/PM trips or >1,000 trips per day)
 - NA Soil Erosion and Sedimentation Control Plan
 - NA Location of all environmental features
 - NA Stormwater management features
 - NA Proposed accesses, easements, streets, and sidewalks
- ✓ Permits received - NC NOT Driveway Permitt Applied for

2. TRC Meeting

- ✓ Site Plan Review To Be Done
- ✓ Agency comments/requirements To Be Done

3. Post-TRC Meeting

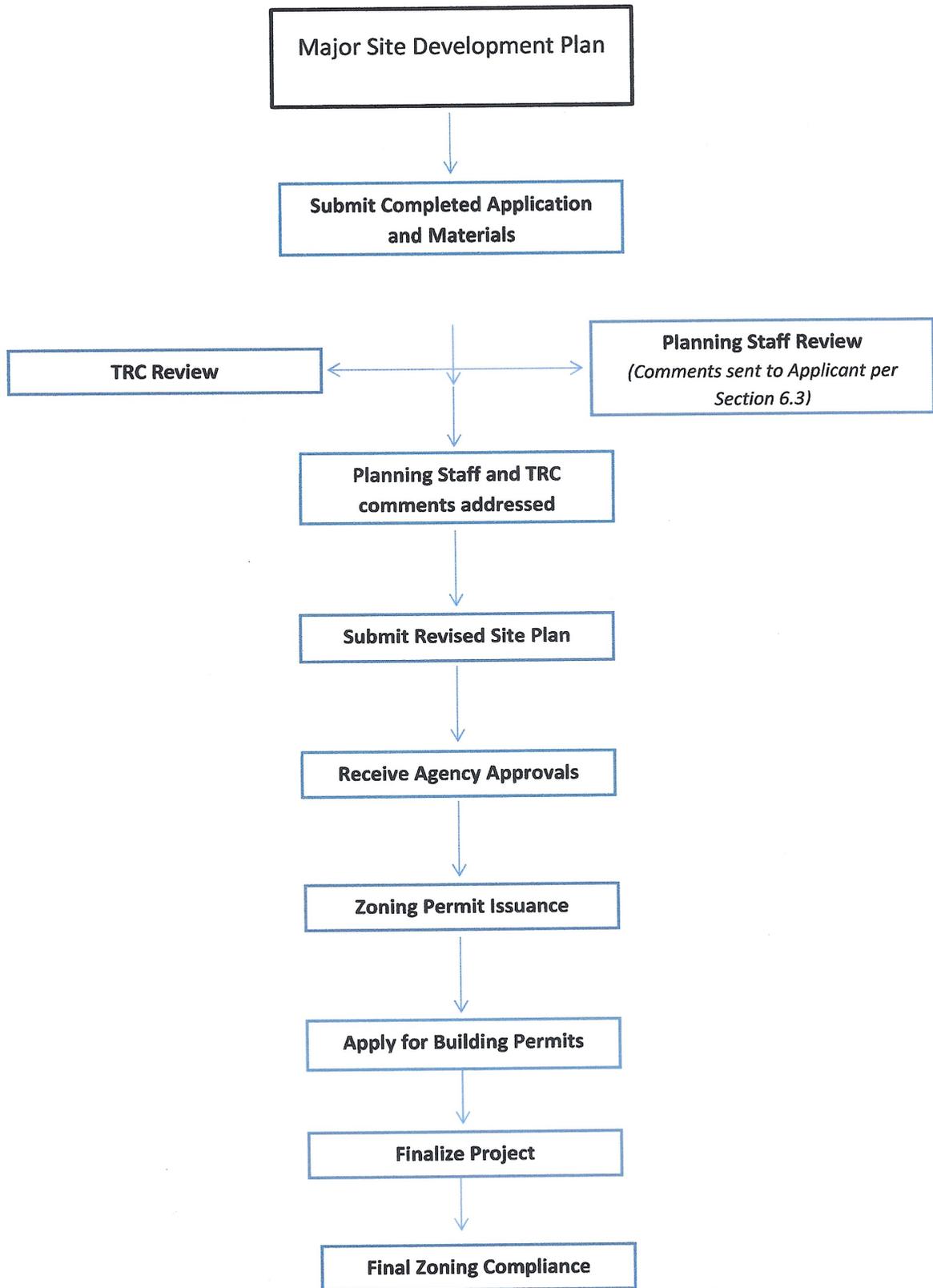
- ✓ Submit site plan with revisions To Be Done
- ✓ Receive agency approvals To Be Done
- ✓ Forward all agency approvals to Planning Staff. To Be Done

4. Approval of Site Plan

- ✓ All TRC comments and agency requirements addressed To Be Done
- ✓ Zoning approval allows for building permit process to begin
- ✓ Apply for building permits To Be Done

5. Final Zoning

- ✓ Site Visit to check the following:
 - ✓ Landscaping
 - ✓ Buffering
 - ✓ Parking } To Be Done





**North Carolina American Legion Post 167
Post Office Box 337, Hampstead, North Carolina 28443**

November 30, 2023

Re: Agency authorization

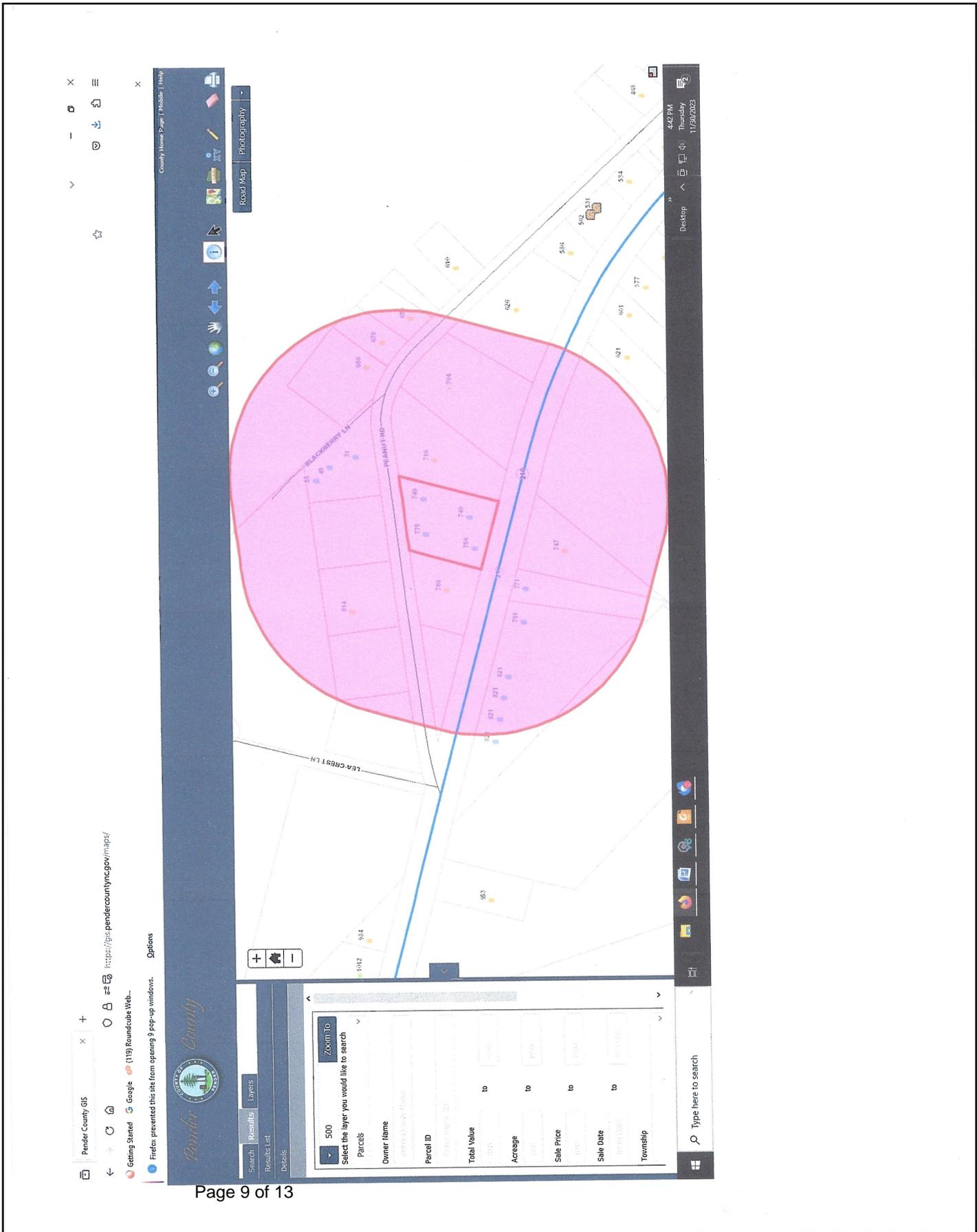
To Whom It May Concern:

As a corporate officer authorized to bind the organization whose name and address appear in the header, I hereby authorize Mark Walton of Walton Engineering to sign and submit documents on behalf of the organization for the purpose of obtaining all necessary permits and approvals in connection with the major site development plan and construction of a 5,000 sqft building (including all necessary accessories and amenities) on the parcel of land located at 756 NC Hwy 210, Hampstead, NC 28443.

Please contact me via phone with any questions at (510) 604-0718. Thank you for your time and cooperation.

Sincerely,

Phillip D. Cordeiro
Post Finance Officer



①

List of Properties within 500' of Project Site

~~PNs within 500'~~

- 3282-59-6531-0000
Tammy Lea Smith, 149 Circle Dr,
Hampstead, 28443
~~821, NC Hwy 210, W~~
- 3282-59-9328-0000
Wilkes, Peggy Sutton
609 Long Leaf Acres Dr.,
Wilmington, 28405
- 3282-69-0337-0000
Taylor, Thomas Lee
747 Hwy 210 W, Hampstead 28443
- 3282-68-1857-0000
Ellis, Susan K et al
302 Campbell Way, Greenville, NC
27858
- 3282-69-8520-0000
Williams, Larry M
626 NC Hwy 210 W, 28443
- 3282-69-5628-0000
Discovery Place Holdings, LLC
PO Box 1252
Hampstead, 28443
- 3282-69-3745-0000
Rosario, Francisco
716 NC Hwy 210 W
Hampstead

(2)

- 3282-59-9726-0000
"O" Neal, Sandra ~~Ma~~ Mae Willets'
786 NC Hwy 210, Hampstead
- 3282-59-7716-0000
O'neil, Donald
786 Hwy 210 W, Hampstead
- 3282-59-5912-0000
Smith, Lea Tammy
149 Circle Dr., Hampstead
- 3282-59-7923-0000
Parker, Karum Hill
207 Skipper Road, Hampstead
- 3283-50-9025-0000
Forehand, James T
814 Peanut Road, Hampstead
- 3283-60-1047-0000
Triggered LLC
20332 US Hwy 117
Hampstead, 28443
- 3283-60-3009-0000
Colclough, Jason Harold
2004 Middle Sound Loop Rd
Wilmington, 28411
- 3283-60-5087-0000
Miller, Levert Christopher
686 Peanut Rd, Hampstead

3

- 3282-69-7926-0000
Hall, Robert M
670 Peanut Rd
Hampstead
- 3282-69-7899-0000
Hall, Marie
650 Peanut Rd
Hampstead
- 3282-69-8866-0000
Marie Hall"
650 Peanut Rd
- 3283-50-7350-0000
Flynn, Jamie L
101 Circle Dr
Hampstead
- 3283-70-6141-0000
"Taylor Meadows Lands" LLC
326 Howards Lane
Hampstead

Left To Do

17 11"X17" Site Plans

List of Property Owners within 500'

Addressed Envelopes for Same

Fill out Application Form

~~Envelopes for~~

Stamps for Envelopes - 20+

2 Full Size Plans



Pender County United Rentals Conditional Rezoning

TO: Technical Review Committee
FROM: Daniel Adams
DATE: January 4, 2024
SUBJECT: REZONE 2023-61

SUMMARY:

Conditional rezoning application requesting to rezone two parcels from GB, General Business, to a conditional zoning district that permits light industrial and commercial uses, including uses covered by the following NAICS Codes: 532490 (Commercial and Industrial Machinery and Equipment Rental and Leasing) and 562991 (All Other Waste Management Services/Septic Tank and Related Services).

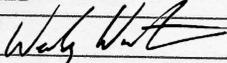
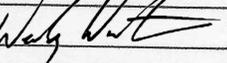
ACTION REQUESTED:

Case to be reviewed by the TRC

ATTACHMENTS:

1. Application
2. Site Plan

APPLICATION FOR CONDITIONAL REZONING

THIS SECTION FOR OFFICE USE			
Application No.	ZMA-CD	Date	
Application Fee	\$	Invoice Number:	
Pre-Application Conference		Hearing Date	
SECTION 1: APPLICANT INFORMATION			
Applicant's Name:	TW & AG Timber, LLC	Owner's Name:	TW & AG Timber, LLC
Applicant's Address:	8155 Malpass Corner	Owner's Address:	8155 Malpass Corner
City, State, & Zip	Currie, NC 28435	City, State, & Zip	Currie, NC 28435
Phone Number:	910-604-0049	Phone Number:	910-604-0049
Email Address:	wesley@lewisfarmandliquidwaste.com	Email Address:	wesley@lewisfarmliquidwaste.com
Legal relationship of applicant to landowner:	Same		
SECTION 2: PROJECT INFORMATION			
Property Identification Number (PIN):	3282-87-3771 3282-88-1093	Total property acreage:	6.21
Current Zoning District:	GB - General Business	Proposed Zoning District:	CZ - Commercial Service
Project Address or Location:	180 NC Hwy. 210, Hampstead, NC 28443		
Proposed Uses to be Considered (Include NAICS Code):			
532490, 562991			
Proposed Uses to be Eliminated from Consideration (Include NAICS Code):			
SECTION 3: SIGNATURES			
Applicant's Signature		Date:	12/21/23
Applicant's Name Printed	Wesley Wooten	Date:	12/21/23
Owner's Signature		Date:	12/21/23
Owner's Name Printed	Wesley Wooten	Date:	12/21/23
NOTICE TO APPLICANT			
<ol style="list-style-type: none"> 1. Applicant must also submit the information described on the Rezoning Checklist. 2. Applicant or agent authorized in writing must attend the public hearing. 3. Once the public hearing has been advertised, the case will be heard unless the applicant withdraws the application or unless the Planning Board or other authorized person agrees to table or delay the hearing. 4. All fees are non-refundable 5. A complete application packet must be submitted prior to the deadline in order to be placed on the next Planning Board Agenda 			

Pender County Planning and Community Development

805 S. Walker Street
PO Box 1519
Burgaw, NC 28425



Phone: 910-259-1202
Fax: 910-259-1295
www.pendercountync.gov

Conditional Zoning Map Amendment Submission (Conditional Rezoning)

Applications will be considered for review by Staff only when deemed complete. The application will be regarded as incomplete until the following items are received by the Planning and Community Development Staff.

- | | | |
|----|------------------|--|
| 1. | <u> x </u> | Pre-submittal Meeting |
| | <u> x </u> | Date of Meeting <u> 08/10/23 </u> |
| 2. | <u> x </u> | Signed Application |
| 3. | <u> x </u> | Payment |
| | | \$500 for the first 5 acres; \$10/ acre thereafter up to 1,000 acres; \$5 per acre thereafter |
| 4. | <u> x </u> | Generalized Site Development Plan |
| | | All applications which specify an intended use must include a generalized site development plan drawn to a suitable scale, supporting information and text which specifies the use or uses intended for the property and any development standards to be approved concurrently with the rezoning application. |
| 5. | <u> x </u> | Narrative |
| | | A description and/or statement of the present and proposed land use classification and stating why the request is being made and any information that is pertinent to the case. |
| 6. | <u> x </u> | Public Input Meeting Report |
| | | A meeting summary shall be submitted in accordance with the Unified Development Ordinance. This item is not required at the time of application submittal but must be received by the Administrator prior to any public hearings are noticed. |
| 7. | <u> x </u> | Digital Submission |
| | | For all documents submitted in paper copy, a digital copy shall be sent via email or digital drive. |
| 8. | <u> x </u> | Adjacent Property List |
| | | A list of names and addresses, as obtained from the county tax listings and tax abstract, to the owners of all properties located within 500-feet of the perimeter of the project bounds. |
| 9. | <u> x </u> | Adjacent Property Envelopes |
| | | The applicant shall provide two sets of business envelopes addressed to each of the owners of all properties located within 500-feet of the perimeter of the project bounds and accompanied with the amount of postage required for first class postage. No return address shall be placed on the envelopes at the time of submission. |

I certify that all information presented in this application is accurate to the best of my knowledge.

Signature of Applicant Wesley Wooten
Printed Name Wesley Wooten

Date 12/21/2023

Staff Initials:	
Date:	

180 NC HWY 210 - UNITED RENTALS

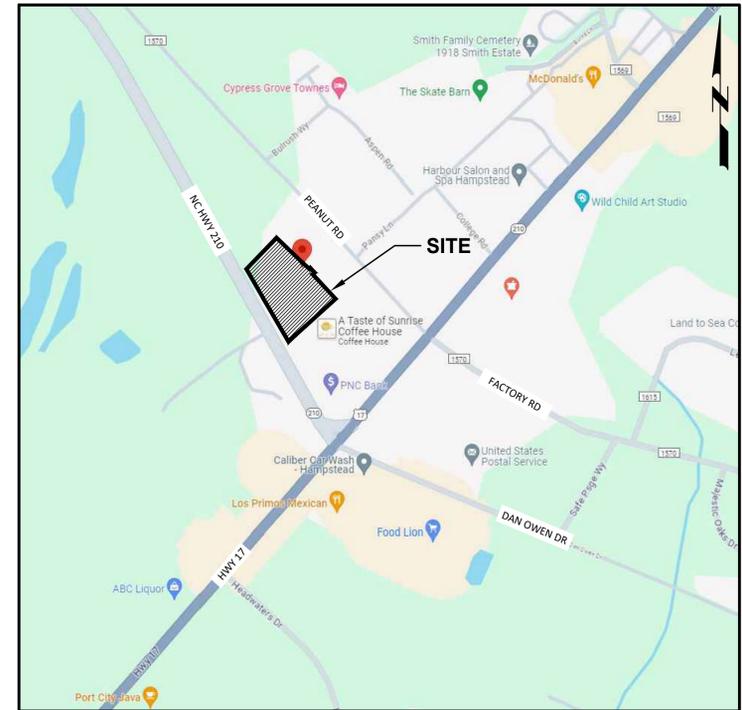
CONSTRUCTION EQUIPMENT RENTALS MAJOR SITE DEVELOPEMENT PLAN PENDER COUNTY, NC

PIN: 3282-87-3771 & 3282-88-1093

PROJECT No. C20801.00



VICINITY MAP



LOCATION MAP

SCHEDULE OF DRAWINGS:

- C-101 COVER SHEET
- C-102 EXISTING CONDITIONS
- C-103 SITE PLAN
- C-103 STORMWATER MANAGEMENT PLAN
- C-104 EROSION CONTROL PLAN
- C-105 NCG01 SHEETS

APPROVED BY THE PENDER COUNTY UNIFIED DEVELOPMENT ORDINANCE ADMINISTRATOR

PENDER COUNTY ADMINISTRATOR SIGNATURE

APPROVAL DATE

SITE PLAN VALID FOR TWO (2) YEARS FROM APPROVAL DATE



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MacCONNELL & Associates, P. C.

501 CASCADE POINTE LANE, SUITE 103
CARY, NORTH CAROLINA 27513
P. O. BOX 129

LICENSE MORRISVILLE, NORTH CAROLINA 27560
No. C-1039 TEL: (919) 467-1239 FAX: (919) 319-6510

CONTACT INFORMATION

APPLICANT/OWNER: TW AG & TIMBER LLC
 CONTACT: WESLEY WOOTEN
 EMAIL: WESLEY@WESLEYFARMSC.COM
 PHONE: 910-604-0049

ENGINEER: MACCONNELL & ASSOCIATES, P.C.
 CONTACT: HAYLEY BRAUN, P.E.
 ADDRESS: 501 CASCADE POINTE LANE, SUITE 103
 CARY, NC 27513
 EMAIL: HAYLEY@MACCONNELLANDASSOC.COM
 PHONE: 919-467-1239

DECEMBER 19, 2023

FOR REVIEW ONLY
NOT RELEASED FOR
CONSTRUCTION

REVISIONS			
NO.	DATE	DESCRIPTION	SHEET



PEANUT ROAD
 VARIABLE WIDTH PUBLIC R/W
 (SPEED LIMIT 35 MPH)

NC HWY 210
 VARIABLE WIDTH PUBLIC R/W
 (SPEED LIMIT 35 MPH)

LINE	BEARING	LENGTH
L4	N47° 31' 55"E	10.35
L5	S43° 45' 32"E	50.00
L6	S52° 23' 53"W	19.83

ABBREVIATION LEGEND

IRF	REBAR FOUND
IPF	IRON PIPE FOUND
N/F	NOW OR FORMERLY
IRS	REBAR SET
DB	DEED BOOK
BM	BOOK OF MAPS

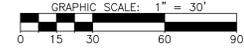
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NOTES

1. EXISTING CONTOUR DATA OBTAINED IN DIGITAL FORMAT FROM NC FRIS IN DECEMBER 2023.

LEGEND

- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- PROPERTY LINE
- ADJOINING PROPERTIES
- x- FENCE
- - - RIGHT-OF-WAY
- - - CREEK
- - - EX. SANITARY SEWER
- - - EX. WATER LINE
- - - NEW SANITARY SEWER
- - - NEW WATER LINE



REVISIONS

NO.	DATE	DESCRIPTION

PROJECT MANAGER: HDB	PROJECT ENGINEER: HDB
DRAWN BY: HDB	CHECKED BY: GSM

DATE:
DECEMBER 19, 2023



MacCONNELL & Associates, P. C.
 601 CASCADE POINTE LANE, SUITE 103
 CARY, NORTH CAROLINA 27513
 P.O. BOX 129
 MORRISVILLE, NORTH CAROLINA 27660
 LICENSE No. C-1039 TEL: (919) 467-1239 FAX: (919) 319-6510

180 NC HWY 210
UNITED RENTALS

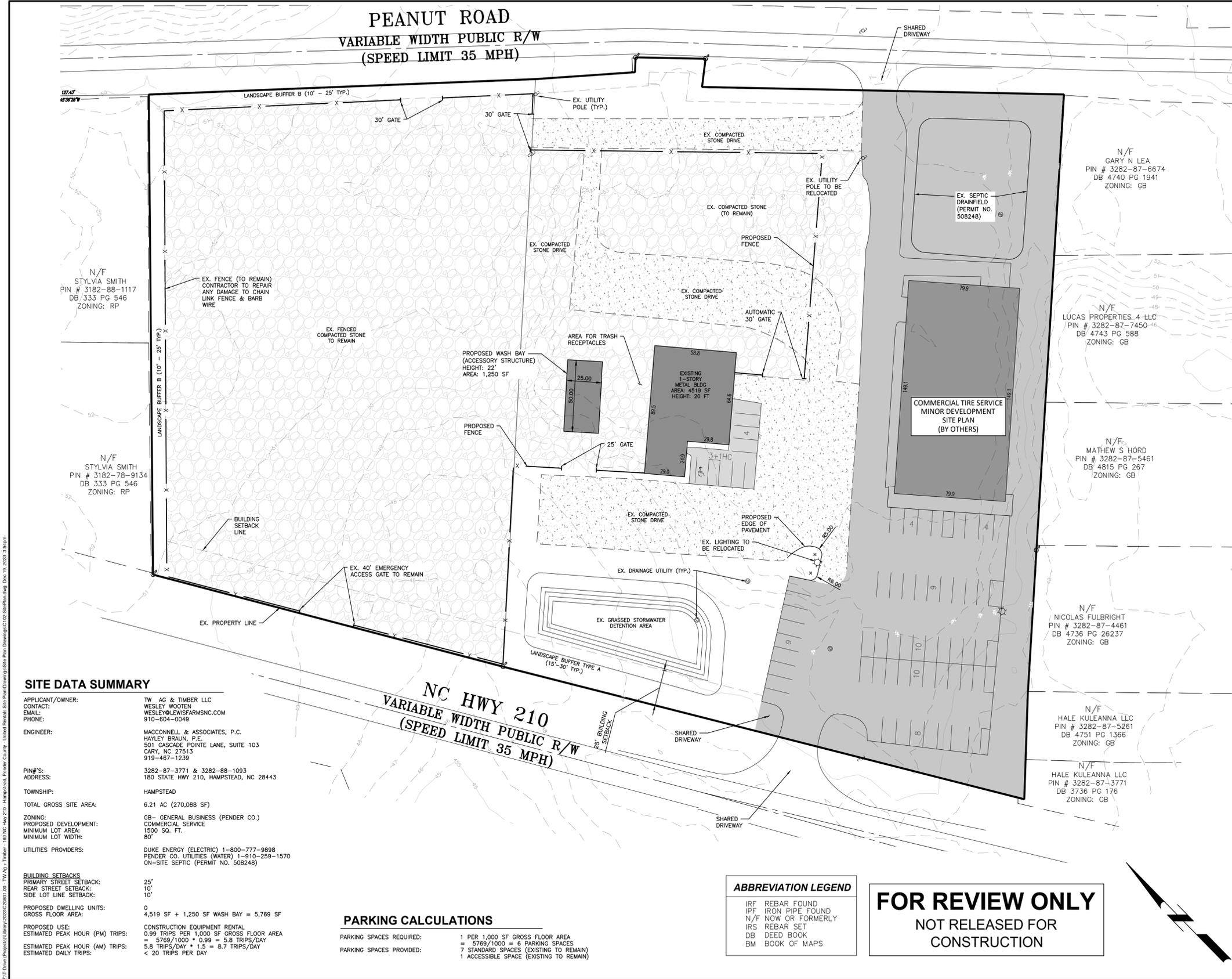
SITE PLAN

CITY OF HAMPSTEAD
PENDER COUNTY, NC

EXISTING CONDITIONS	
PROJECT NUMBER C20801.00	DRAWING NUMBER C-101

C:\20801.00 - 180 NC HWY 210 - UNITED RENTALS SITE PLAN - MAJOR SIRE DEVELOPMENT PLAN

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SITE DATA SUMMARY

APPLICANT/OWNER: TW AG & TIMBER LLC
 CONTACT: WESLEY WOOTEN
 EMAIL: WESLEY@LEWISFARMSNC.COM
 PHONE: 910-604-0049

ENGINEER: MACCONNELL & ASSOCIATES, P.C.
 HAYLEY BRAUN, P.E.
 501 CASCADE POINTE LANE, SUITE 103
 CARY, NC 27513
 919-467-1239

PIN#S: 3282-87-3771 & 3282-88-1093
 ADDRESS: 180 STATE HWY 210, HAMPSTEAD, NC 28443

TOWNSHIP: HAMPSTEAD

TOTAL GROSS SITE AREA: 6.21 AC (270,088 SF)

ZONING: GB- GENERAL BUSINESS (PENDER CO.)
 PROPOSED DEVELOPMENT: COMMERCIAL SERVICE

MINIMUM LOT AREA: 1500 SQ. FT.
 MINIMUM LOT WIDTH: 80'

UTILITIES PROVIDERS: DUKE ENERGY (ELECTRIC) 1-800-777-9898
 PENDER CO. UTILITIES (WATER) 1-910-259-1570
 ON-SITE SEPTIC (PERMIT NO. 508248)

BUILDING SETBACKS
 PRIMARY STREET SETBACK: 25'
 REAR STREET SETBACK: 10'
 SIDE LOT LINE SETBACK: 10'

PROPOSED DWELLING UNITS: 0
 GROSS FLOOR AREA: 4,519 SF + 1,250 SF WASH BAY = 5,769 SF

PROPOSED USE: CONSTRUCTION EQUIPMENT RENTAL
 ESTIMATED PEAK HOUR (PM) TRIPS: 0.99 TRIPS PER 1,000 SF GROSS FLOOR AREA
 = 5769/1000 * 0.99 = 5.8 TRIPS/DAY
 ESTIMATED PEAK HOUR (AM) TRIPS: 5.8 TRIPS/DAY * 1.5 = 8.7 TRIPS/DAY
 ESTIMATED DAILY TRIPS: < 20 TRIPS PER DAY

PARKING CALCULATIONS

PARKING SPACES REQUIRED: 1 PER 1,000 SF GROSS FLOOR AREA
 = 5769/1000 = 6 PARKING SPACES

PARKING SPACES PROVIDED: 7 STANDARD SPACES (EXISTING TO REMAIN)
 1 ACCESSIBLE SPACE (EXISTING TO REMAIN)

ABBREVIATION LEGEND

- IRF REBAR FOUND
- IPF IRON PIPE FOUND
- N/F NOW OR FORMERLY
- IRS REBAR SET
- DB DEED BOOK
- BM BOOK OF MAPS

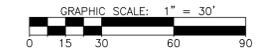
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NOTES

- EXISTING CONTOUR DATA OBTAINED IN DIGITAL FORMAT FROM NC FRIS IN DECEMBER 2023.
- ALL SIGNAGE TO MEET THE REQUIREMENTS OF SECTION 9 OF THE PENDER COUNTY UNIFIED DEVELOPMENT ORDINANCE (UDO).
- EXISTING LANDSCAPE AND BUFFERING TO REMAIN PER ARTICLE 6 OF THE PENDER COUNTY UDO.

LEGEND

- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- PROPERTY LINE
- ADJOINING PROPERTIES
- x- FENCE
- RIGHT-OF-WAY
- CREEK
- EX. SANITARY SEWER
- EX. WATER LINE
- NEW SANITARY SEWER
- NEW WATER LINE



REVISIONS

NO.	DATE	DESCRIPTION

PROJECT MANAGER: HDB
 PROJECT ENGINEER: HDB
 DRAWN BY: HDB
 CHECKED BY: GSM

DATE: DECEMBER 19, 2023



MacCONNELL & Associates, P.C.
 601 CASCADE POINTE LANE, SUITE 103
 CARY, NORTH CAROLINA 27513
 P.O. BOX 129
 MORRISVILLE, NORTH CAROLINA 27660
 No. C-1039 TEL: (919) 467-1239 FAX: (919) 319-6510

**180 NC HWY 210
 UNITED RENTALS**

SITE PLAN

**CITY OF HAMPSTEAD
 PENDER COUNTY, NC**

SITE PLAN

PROJECT NUMBER: **C20801.00**
 DRAWING NUMBER: **C-102**

PEANUT ROAD
VARIABLE WIDTH PUBLIC R/W
(SPEED LIMIT 35 MPH)



1 - Post-Development Land Use Areas

	C	(SF)	(AC)
Total Drainage Area:		271,168	6.23 acres
Total Impervious Area:	0.05	212,104	4.97 acres
Total Pervious Area:	0.20	59,064	1.36 acres
Percent Impervious:			78.2%
Composite Runoff Coefficient (C):			0.79

2 - Rational Method for Peak Flow

$Q = C \cdot I \cdot A$
 where:
 Q = Peak flow for design storm
 C = Composite runoff coefficient
 I = Rainfall intensity for design storm (in/hr)
 10 year return period
 5 minute storm duration
 A = Drainage Area (acres)

C = 0.79 (unitless)
 I = 9.31 in/hr
 A = 6.23 acres

$Q = (0.79) \cdot (9.31 \text{ in/hr}) \cdot (6.23 \text{ ac}) = 45.821 \text{ cfs}$

Q = 45.8 cfs

3 - Simple Method for Runoff Volume (Schueler 1987)

$Dv = 3630 \cdot Rd \cdot Rv \cdot A$
 where:
 Dv = Design Volume (cubic feet)
 Rd = Design storm depth (inches) (typically 1.0")
 Rv = Runoff coefficient (unitless)
 A = Drainage Area (acres)

Rd = 1.0 inches
 Rv = 0.754 (unitless)
 A = 6.23 acres

$Dv = 3630 \cdot (1 \text{ in}) \cdot (0.754) \cdot (6.23 \text{ acres}) = 17051.63 \text{ cf}$

Dv = 17,052 cf

DRY POND STAGE STORAGE

STAGE	CONTOUR AREA (SF)	ADDED VOLUME (CF)	TOTAL VOLUME (CF)
0.0	3,096	0	0
1.0	4,599	3,848	3,848
2.0	5,435	5,017	8,865
3.0	6,328	5,882	14,746
4.0	7,278	6,803	21,549

ABBREVIATION LEGEND

- IRF REBAR FOUND
- IPF IRON PIPE FOUND
- N/F NOW OR FORMERLY
- IRS REBAR SET
- DB DEED BOOK
- BM BOOK OF MAPS

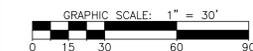
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NOTES

1. STORMWATER MANAGEMENT PLAN SHALL BE IN ACCORDANCE WITH SECTION 7.9 OF THE PENDER COUNTY UNIFIED DEVELOPMENT ORDINANCE (UDO).

LEGEND

- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- PROPERTY LINE
- ADJOINING PROPERTIES
- x- FENCE
- RIGHT-OF-WAY
- CREEK
- EX. SANITARY SEWER
- EX. WATER LINE
- NEW SANITARY SEWER
- NEW WATER LINE
- PERVIOUS/LANDSCAPED AREAS



REVISIONS

NO.	DATE	DESCRIPTION

PROJECT MANAGER: HDB
 PROJECT ENGINEER: HDB
 DRAWN BY: HDB
 CHECKED BY: GSM

DATE: DECEMBER 19, 2023



MacCONNELL & Associates, P. C.
 601 CASCADE POINTE LANE, SUITE 103
 CARY, NORTH CAROLINA 27513
 P.O. BOX 129
 LICENSE MORRISVILLE, NORTH CAROLINA 27660
 No. C-1039 TEL: (919) 467-1239 FAX: (919) 319-6510

180 NC HWY 210
UNITED RENTALS
SITE PLAN
CITY OF HAMPSTEAD
PENDER COUNTY, NC

STORMWATER MANAGEMENT PLAN

PROJECT NUMBER: **C20801.00**
 DRAWING NUMBER: **C-103**

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

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

SECTION E: GROUND STABILIZATION

Table with 3 columns: Site Area Description, Required Ground Stabilization Timeframes (Stabilize within this many calendar days after ceasing land disturbance), and Timeframe variations.

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity.

GROUND STABILIZATION SPECIFICATION

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

Table comparing Temporary Stabilization and Permanent Stabilization methods.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

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

PORTABLE TOILETS

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

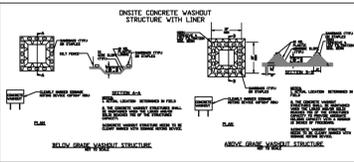
EARTHEN STOCKPILE MANAGEMENT

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



NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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

NOTES

LEGEND

- INDEX CONTOUR
INTERMEDIATE CONTOUR
PROPERTY LINE
ADJOINING PROPERTIES
FENCE
RIGHT-OF-WAY
CREEK
EX. SANITARY SEWER
EX. WATER LINE
NEW SANITARY SEWER
NEW WATER LINE

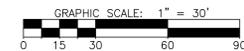


Table with 3 columns: NO., DATE, DESCRIPTION. Header: REVISIONS.

PROJECT MANAGER: HDB
PROJECT ENGINEER: HDB
DRAWN BY: HDB
CHECKED BY: GSM

DATE:
DECEMBER 19, 2023



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180 NC HWY 210
UNITED RENTALS
SITE PLAN
CITY OF HAMPSTEAD
PENDER COUNTY, NC

NCG01 SHEETS

PROJECT NUMBER: C20801.00
DRAWING NUMBER: D-101

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

Table with 3 columns: Inspect, Frequency (during normal business hours), Inspection records must include.

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

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

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

Table with 2 columns: Item to Document, Documentation Requirements.

2. Additional Documentation to be Kept on Site
In addition to the E&S plan documents above, the following items shall be kept on the site at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

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

3. Documentation to be Retained for Three Years
All data used to complete the e-NDI and all inspection records shall be provided as a part of three years after project completion and made available upon request. (40 CFR 122.41)

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

- (a) Visible sediment deposition in a stream or wetland.
(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref. 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref. 40 CFR 302.4) or G.S. 149-215.85.
(d) Anticipated bypasses and unanticipated bypasses.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (900) 858-0368.

Table with 2 columns: Occurrence, Reporting Timeframes (After Discovery) and Other Requirements.

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

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

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



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

