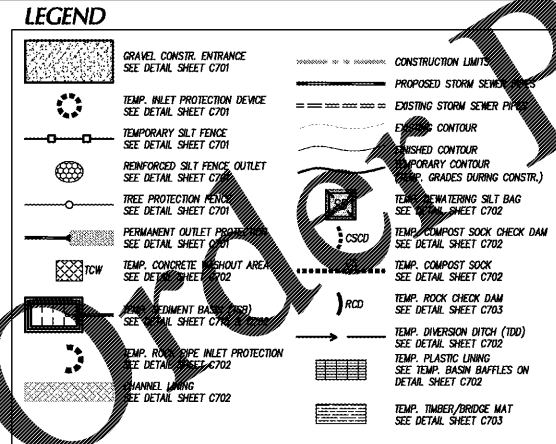
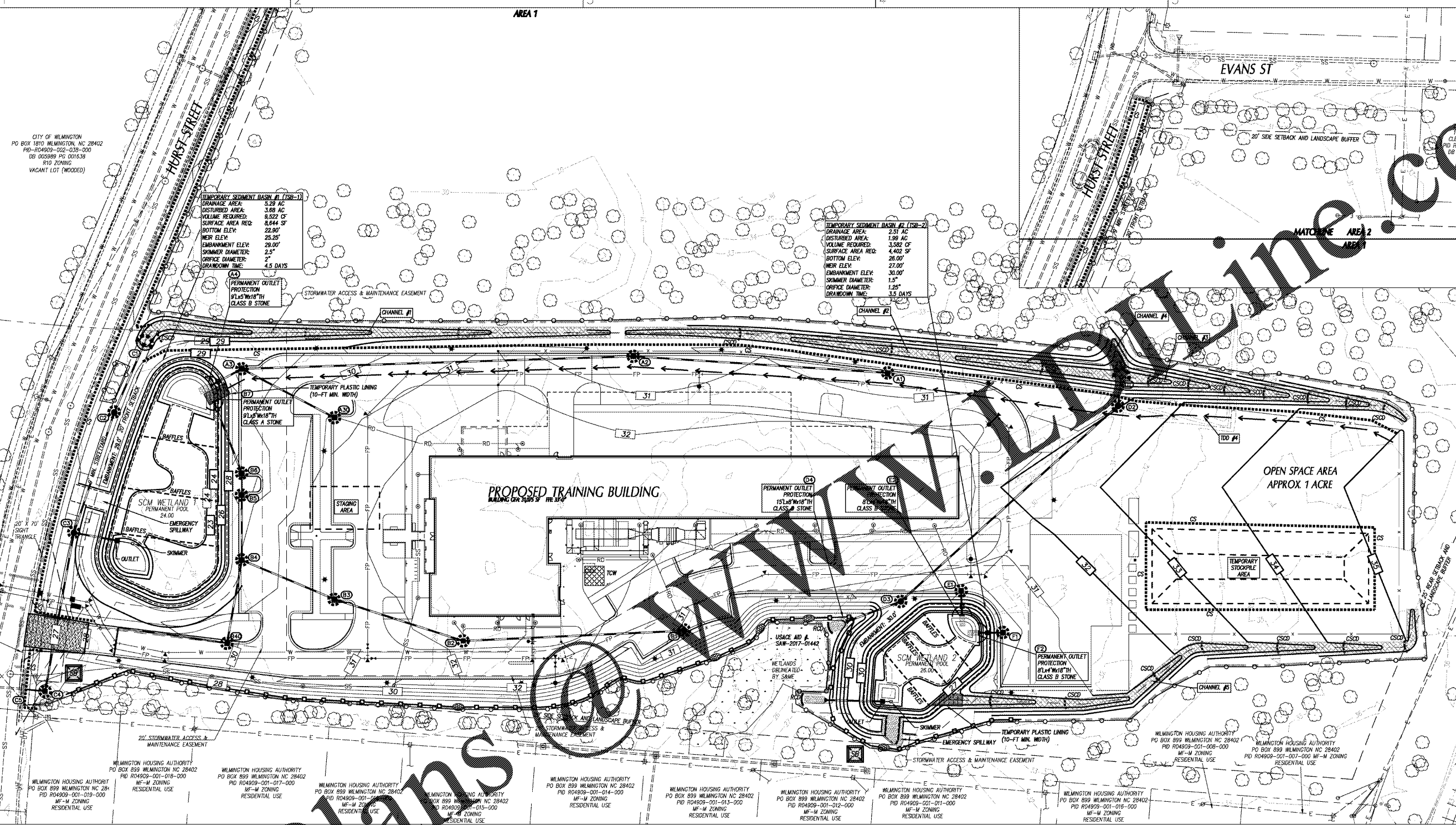


CITY OF WILMINGTON
 PO BOX 1810 WILMINGTON, NC 28402
 PD-R04909-002-039-000
 DR 000989 PG 001638
 F10 ZONING
 VACANT LOT (WOODED)

TEMPORARY SEDIMENT BASIN #1 (TSR-1)
 DRAINAGE AREA: 5.29 AC
 DISTURBED AREA: 3.88 AC
 VOLUME REQUIRED: 3,922 CF
 SURFACE AREA REQ: 8,644 SF
 BOTTOM ELEV: 22.90'
 HIGH ELEV: 25.25'
 EMBANKMENT ELEV: 28.00'
 SKIMMER DIAMETER: 2.5'
 ORIFICE DIAMETER: 2"
 DRAINDOWN TIME: 4.5 DAYS

TEMPORARY SEDIMENT BASIN #2 (TSR-2)
 DRAINAGE AREA: 2.51 AC
 DISTURBED AREA: 1.98 AC
 VOLUME REQUIRED: 1,957 CF
 SURFACE AREA REQ: 4,402 SF
 BOTTOM ELEV: 28.00'
 HIGH ELEV: 27.00'
 EMBANKMENT ELEV: 30.00'
 SKIMMER DIAMETER: 1.5'
 ORIFICE DIAMETER: 1.25"
 DRAINDOWN TIME: 3.5 DAYS



- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
 - THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL MAINTAIN WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER.
 - THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
 - TOTAL DISTURBED AREA: 8 AC.
 - ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C701.
 - ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
 - THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
 - SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
 - TREE PROTECTION CERTIFICATION SHALL BE SUBMITTED TO THE CITY OF WILMINGTON PLANNING DEPARTMENT AND TREE PROTECTION INSPECTION COMPLETED PRIOR TO EROSION CONTROL PERMIT ISSUANCE.
 - CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS.
 - INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS.

- MAINTENANCE PLAN**
- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (BS2S) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
 - FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (BS2S) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
 - THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
 - SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
 - ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

- SELF-INSPECTION RULES**
- SELF-INSPECTION SHALL BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - THE FINANCIALLY RESPONSIBLE PERSON AND/OR HIS AGENT WILL PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCDENR'S SELF INSPECTION REPORT (WORKSHEET) AND THIS WILL BE KEPT ON-SITE.
 - NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM: THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2008 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS MUST BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCCS 113A-34.1 AND 15A NCCS 48-00.31. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FROM <http://daq.nc.gov/about/divisions/energy-mine-and-land-resources/erosion-sediment-control/forms>. IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT NCDENR OFFICE AT 919-791-4200.
 - CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGE ON SITE.
 - CONTRACTOR SHALL KEEP A COPY OF APPROVED EROSION & SEDIMENT CONTROL PLANS, APPROVAL LETTER, 401/404 DOCUMENTS FROM DWR/ASDC, NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS ON SITE UNTIL THE PROJECT IS CLOSED BY NCDENR OFFICE. CONTRACTOR SHALL SUPPLY A TEMPORARY WASH STATION IF AREAS ALONG PUBLIC STREETS AND EXISTING SCHOOL ARE NOT KEPT CLEAN. CONTRACTOR MUST KEEP AREAS IN PUBLIC USE CLEAN OF SEDIMENT.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO FOLLOWING SCHEDULE:

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES).

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 11B(2) (b)).

THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.

INSTALL TEMPORARY EXCESSIVE MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

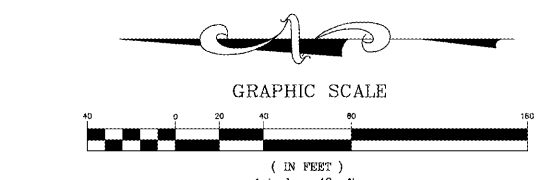
MAT SLOPES IN SUMMER AND WINTER - GRADED SLOPES AND FILLS SHALL BE PROTECTED WITH A ROLLED EROSION CONTROL PRODUCT IF COMPLETED OUTSIDE OPTIMUM GERMINATION SEASONS, WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF VEGETATIVE GROUND COVER.

NOTE EROSION CONTROL PLANS WILL BE REVIEWED, PERMITTED & INSPECTED BY NCDENR, NOT CITY OF WILMINGTON.

APPROVED CONSTRUCTION PLAN

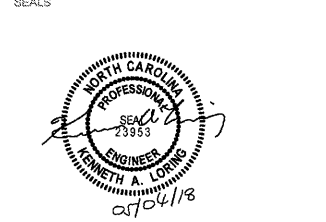
NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

City of Wilmington
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____



DESIGNER
CLARK NEXSEN
 213 South Jefferson Street, Suite 1011
 Roanoke, Virginia 24011
 T: 540-982-0800 F: 540-982-1193
 WWW.CLARKNEXSEN.COM
 CLARK NEXSEN LICENSE NUMBER: C-1028

CONSULTANT
CLH DESIGN, P.A.
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 Suite 120
 Cary, North Carolina 27518
 Phone: (919) 319-8716
 Fax: (919) 319-7616
 LA: C-106, PE: C-1595



SUBMITTAL
 4 MAY 2018
CONSTRUCTION DOCUMENTS

SHEET
**EROSION CONTROL
 PLAN - PHASE 2**
C402
 DESIGN: ZRP
 DRAWN: YA, DL
 REVIEW: ZRP, KAL
 CN 5938
 CLH 16-161