

AIKEN COUNTY
AIKEN PUBLIC LIBRARY & NORTH WING
RENOVATION
314 CHESTERFIELD ST. S. AIKEN, SC

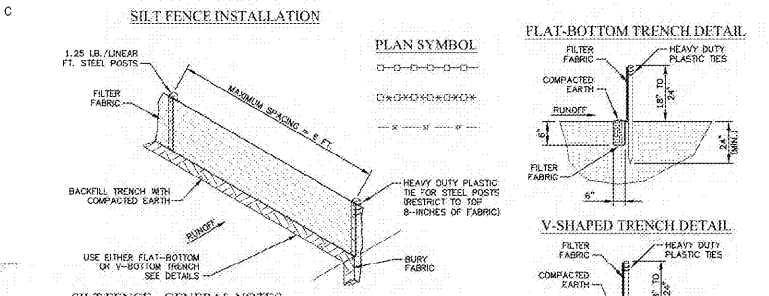
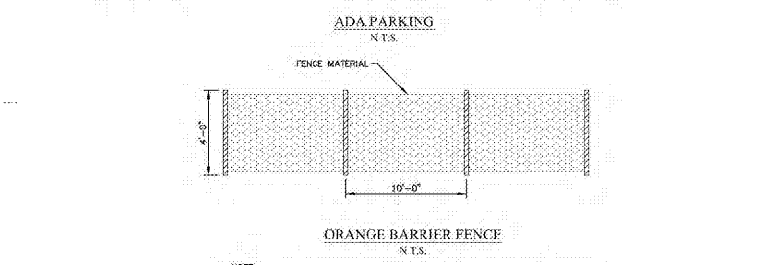
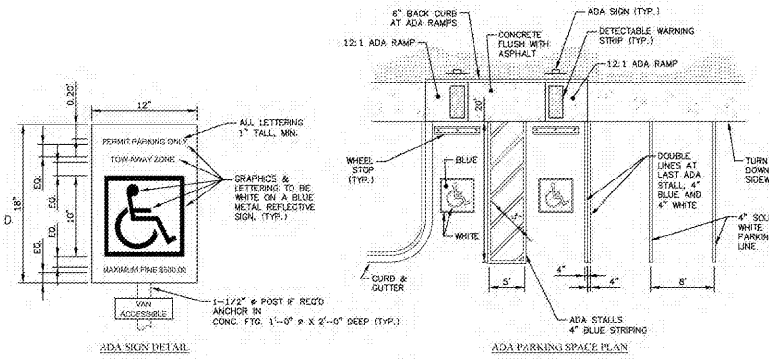
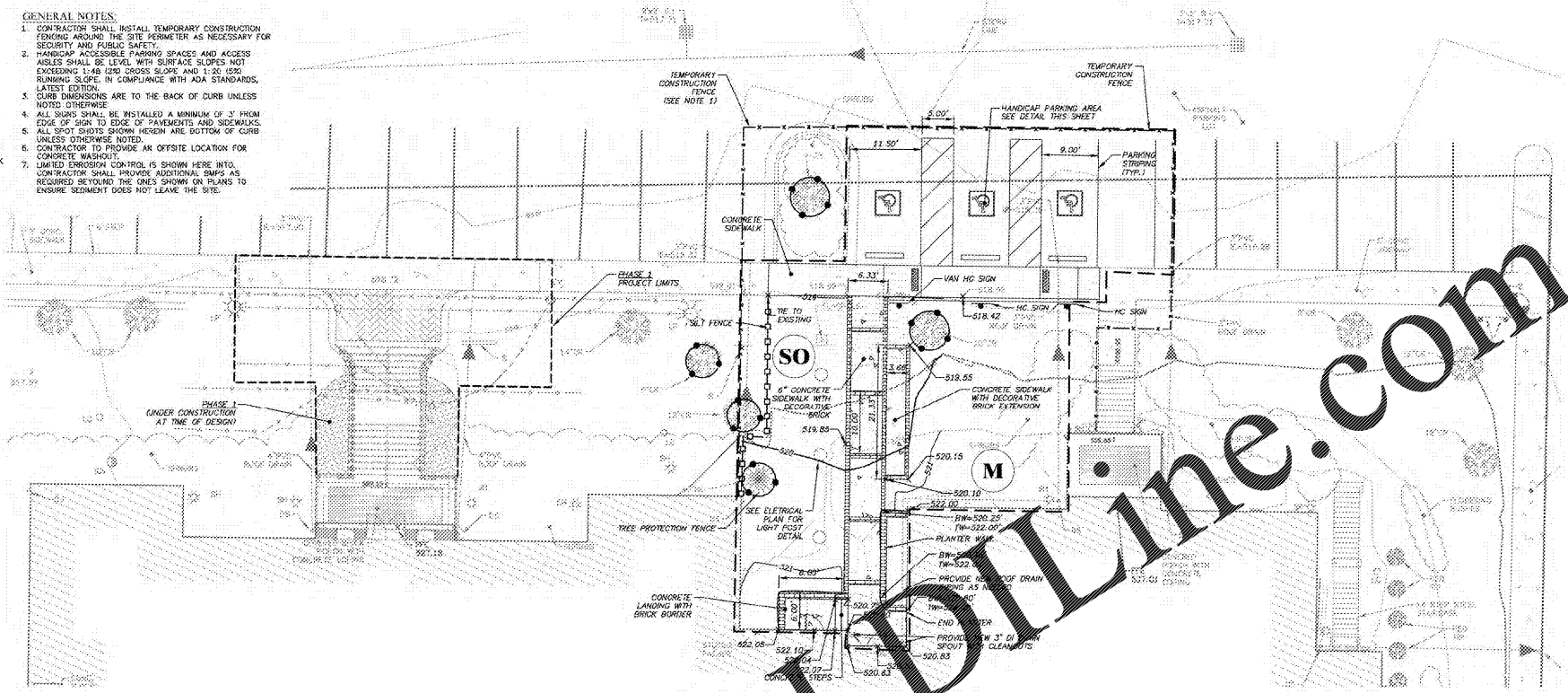
NO.	DATE	DESCRIPTION	BY
D	04/10/2020	PERMIT SET	TMP
E	07/09/2020	ISSUE FOR BID	TMP

ISSUE FOR BID: 05/20/2020

PRINCIPAL IN CHARGE: TMP
PROJECT ENGINEER: TMP
DRAWN BY: MAB

SHEET TITLE: SITE PLAN & DETAILS

SHEET NO.: 019477.01



SILT FENCE - GENERAL NOTES:

- DO NOT PLACE SILT FENCE IN CHANNELS OR IN OTHER AREAS SUBJECT TO CONCENTRATED FLOWS. SILT FENCE SHOULD NOT BE USED AS A VELOCITY CONTROL BMP. CONCENTRATED FLOWS ARE ANY FLOWS GREATER THAN 0.5 CFS.
- MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE SILT FENCE SHALL BE 100-FEET.
- MAXIMUM SLOPE STEEPNESS (NORMAL PERPENDICULAR TO THE FENCE LINE) SHALL BE 2:1.
- SILT FENCE JOINTS, WHEN NECESSARY, SHALL BE COMPLETED BY ONE OF THE FOLLOWING OPTIONS:
 - WRAP EACH FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 1-FOOT MINIMUM OVERLAP.
 - OVERLAP SILT FENCE BY INSTALLING 3-FOET PASSED THE SUPPORT POST TO WHICH THE NEW SILT FENCE ROLL IS ATTACHED. ATTACH OLD ROLL TO NEW ROLL WITH HEAVY-DUTY PLASTIC TIES, OR
 - OVERLAP ENTIRE WIDTH OF EACH SILT FENCE ROLL FROM ONE SUPPORT POST TO THE NEXT SUPPORT POST.
- ATTACH FILTER FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED WITHIN THE TOP 8-INCHES OF THE FABRIC.
- INSTALL THE SILT FENCE PERPENDICULAR TO THE DIRECTION OF THE STORMWATER FLOW AND PLACE THE SILT FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.
- INSTALL SILT FENCE CHECKS (TIE-BACKS) EVERY 50-100 FEET, DEPENDENT ON SLOPE, ALONG SILT FENCE THAT IS INSTALLED WITH SLOPE AND WHERE CONCENTRATED FLOWS ARE EXPECTED OR ARE DOCUMENTED ALONG THE PROPOSED/INSTALLED SILT FENCE.

SILT FENCE - POST REQUIREMENTS:

- SILT FENCE POSTS MUST BE HEAVY-DUTY STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS:
 - COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
 - INCLUDE A STANDARD "I" SECTION WITH A NOMINAL FACE WIDTH OF 1.58-INCHES AND A NOMINAL "I" LENGTH OF 1.48-INCHES.
 - WEIGH 1.25 POUNDS PER FOOT (LB. FWT).
- POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
- STEEL POSTS MAY NEED TO HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM WHEN INSTALLED ALONG STEEP SLOPES OR INSTALLED IN LOOSE SOILS. THE PLATE SHOULD HAVE A MINIMUM CROSS SECTION OF 17-SQUARE INCHES AND BE COMPOSED OF 15 GAUGE STEEL, AT A MINIMUM. THE METAL SOIL STABILIZATION PLATE SHOULD BE COMPLETELY BURIED.
- INSTALL POSTS TO A MINIMUM OF 24-INCHES, A MINIMUM HEIGHT OF 1- TO 2-INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
- POST SPACING SHALL BE AT A MAXIMUM OF 5 FEET ON CENTER.

SILT FENCE - FABRIC REQUIREMENTS:

- SILT FENCE MUST BE COMPOSED OF NONWOVEN GEOTEXTILE FABRIC THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
 - COMPOSED OF FIBRES CONSISTING OF CHAIN SYNTHETIC POLYMERS OF AT LEAST 80% BY WEIGHT OF POLYESTERS, POLYESTERS, OR POLYIMIDES THAT ARE FORMED INTO FILAMENTS OR YARNS THAT RETAIN DIMENSIONS AND STRENGTH RELATIVE TO EACH OTHER.
 - FREE OF ANY TREATMENT OR COATING WHICH WOULD ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.
 - FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,
 - HAVE A MINIMUM WIDTH OF 6-INCHES.
- USE ONLY FABRIC APPEARING ON SC DOT'S QUALIFIED PRODUCTS LISTING (QPL), APPROVAL SHEET #34, MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TIED IN WHEN THE TRENCH IS BACKFILLED.
- FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS.
- FILTER FABRIC SHALL BE INSTALLED AT A MINIMUM OF 24-INCHES ABOVE THE GROUND.

SILT FENCE - INSPECTION AND MAINTENANCE:

- THE KEY TO FUNCTIONAL SILT FENCE IS REGULAR INSPECTION AND REGULAR REMOVAL.
- REGULAR INSPECTIONS OF SILT FENCE SHOULD BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS OF EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE SILT FENCE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUOUSLY MONITORED AND REMOVED WHEN NECESSARY.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SILT FENCE.
- REMOVED SILT SHOULD BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREAS TO STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
- CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE SILT FENCE, OR WHERE THE FABRIC HAS SAGGED OR COLLAPSED DUE TO RUNOFF. REPAIR EROSION AND/or SILT FENCE. INSTALL CHECK-TIE-BACKS AND/OR REINSTALL SILT FENCE.
- CHECK FOR YEARS WITHIN THE SILT FENCE. AREAS WHERE SILT FENCE HAS BEGUN TO FAIL AND FOR ANY OTHER CONDITIONS THAT MAY RENDER THE SILT FENCE INEFFECTIVE. REMOVE DAMAGED SILT FENCE AND REINSTALL NEW SILT FENCE IMMEDIATELY.
- SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE IT IS REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.

