TOTAL AREA = 2.9 ACRES TOTAL CONTAINMENT NEEDED = 5,220 CF



1 AT AN AVERAGE SIZE OF 220'X15'X2'=6,600 CF



2 @ 3'X2'X6' = 72 CF

PERCENT GRADE	RECOMMENDED LINING
0% TO 1%	STRAW AND TACK
1% TO 3%	EROSION CONTROL MATTING
3% TO 5%	SYNTHETIC ROVING
5% AND GREATER	STONE

EROSION CONTROL DETAILS AND SPECIFICATIONS

STD.*	DESCRIPTION SYMBOL
	EROSION CONTROL MATTING
	SYNTHETIC ROVING
	STONE 0000000000000000000000000000000
1630.03	TEMPORARY SILT DITCHT8B
1630.05	TEMPORARY DIVERSION
1605,01	TEMPORARY SILT FENCE
	TEMPORARY SEDMENT CONTROL FENCE-
1622.01	GUIDE FOR TEMPORARY BERMS & SLOPE DRAINS
1630.01	SILT BASIN TYPE-A
1630.02	SILT BASIN TYPE-B
1633.01	TEMPORARY ROCK SILT CHECK TYPE-A
1633.02	TEMPORARY ROCK SILT CHECK TYPE-B >
1634,01	TEMPORARY ROCK SEDIMENT DAM TYPE-A
I634D2	TEMPORARY ROCK SEDIMENT DAM TYPE-B
1635,01	ROCK PIPE INLET SEDIMENT TRAP TYPE A
1636.01	ROCK SILT SCREEN
1630.04	STILLING BASIN FOR PUMPED EFFLUENT
	ROCK INLET SEDIMENT PROTECTION
1632.01	TRAP TYPE-AA 🔲 OR A
1632.02	TRAP TYPE-BB 🔲 OR B
1632.03	TRAP TYPE-CC OR C

NARRAT IVE

1.SOIL TYPE: CLAY X SAND

2. IS THE PROJECT LOCATED IN A HIGH QUALITY WATER ZONE? _X__YES ______NO

3. ARE THERE ANY WETLANDS ADJOINING THIS PROJECT? ____ YES _X___

SITE DESCRIPTION

This project is located in the Villige of Pinehurst of Moore County. at the intersection of NC 2 and NC 5. The area surrounding this project primarily consists of wooded areas, family dwellings, and recreaction areas. The drainage consists of roadway ditches and storm sewers that lead to existing ditches and drainage structures.

PROJECT DESCRIPTION The project will consist of clearing, grubbing, draining, setting up the base and paving. The major land disturbing activities will consist of clearing and grading within the right of way. Temporary and permanent erosion control measures will be installed.

MAINTENANCE SCHEDULE

1.INSPECT WEEKLY AND AFTER EACH RAINFALLUSE THE DEPARTMENT OF TRANSPORTATION'S EROSION CONTROL INSPECTION REPORT.

2.MAINTAIN EROSION CONTROL DEVICES AS FOLLOWS:

A .SILT DITCH - REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE - CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED.

B. SILT FENCE - REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE -AVOID UNDERWINING THE FENCE.

C. SLOPE DRAINS - INSPECT THE SLOPE DRAINS AND SUPPORTING DIVERSIONS.

D. SEDIMENT BASIN - REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH -CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT - REMOVE ALL TRASH AND OTHER DERRIS FROM THE RISER AND POOL AREA.

E.CHECK DAM - REMOVE SETTLEMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION - ADD STONE TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

F. ROCK DAW - REMOVE SEDIMENT AND RESTORE ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE DESIGN VOLUME - CHECK THE STRUCTURE FOR EROSION, PIPING, AND ROCK DISPLACEMENT AFTER EACH SIGNIFICANT RAINSTORM AND REPAIR IMMEDIATELY.

G.DROP INLET PROTECTION (TYPE C)-REMOVE SEDIMENT FROM THE POOL AREAS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN.

H. SEDIMENT TRAP - REMOVE SEDIMENT AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN SETTLEMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP -CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING TO ENSURE IT IS A MINIMUM OF 15 FT. BELOW THE LOW POINT OF THE EMBANKMENT.

NOTE: SEDIMENT SHOULD BE PLACED IN DESIGNATED DISPOSAL AREAS AND NOT ALLOWED TO FLOW INTO STREAMS OR DRAINAGE WAYS DURING STRUCTURE REMOVAL

GENERAL CONSIDERATIONS

- 1. THE LAW REQUIRES INSTALLATION AND MAINTENANCE OF SUFFICIENT EROSION CONTROL PRACTICES TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE, IT ALSO REQUIRES THAT SURFACES BE NON EROSIVE AND STABLE WITHIN 21 DAYS CALENDAR DAYS AFTER THE COMPLETION OF ANY PHASE
- 2.FIT THE DEVELOPMENT TO THE SITE FOLLOW THE NATURAL CONTOURS AS MUCH AS POSSIBLE. PRESERVE AND USE NATURAL DRAINAGE SYSTEMS.
- 3.LIMIT CLEARING AND GRUBBING CLEARLY DEFINE WORK LIMIT LINES, GRADE TO MINIMIZE CUT-AND-FILL SLOPES, PRESERVE NATURAL BUFFER AREAS, AND LIMIT THE TIME THAT BARE SOIL IS
- 4. PROTECT THE SOIL SURFACE LIMIT THE EXTENT OF DISTURBANCE AND STABILIZE THE SOIL SURFACE IMMEDIATELLY, ONCE THE SURFACE HAS BEEN DISTURBED, IT IS SUBJECT TO ACCELERATED EROSION AND SHOULD BE PROTECTED WITH APPROPRIATE COVER, SUCH AS WULCH OR VEGETATION IN AN EXPEDIENT
- 5. SEDIMENT BASINS AND TRAPS SELECT SITES AND INSTALL SEDIMENT BASINS AND TRAPS BEFORE OTHER CONSTRUCTION ACTIVITIES ARE STARTED. ALSO CONSIDER LOCATIONS FOR DIVERSIONS, OPEN CHANNELS, AND STORM DRAINS AT THIS TIME SO THAT ALL SEDIMENT-LADEN TO RUN OFF CAN BE DIRECTED TO AN IMPOUNDMENT STRUCTURE BEFORE LEAVING THE CONSTRUCTION SITE. INSTALL ALL MEASURES AND RELEASE POINTS PRIOR TO CLEARING AND GRUBBING.
- 6. ONCE AN AREA IS DISTURBED. IT IS SUBJECT TO ACCELERATED EROSION. EROSION CONSTROL CAN BE
 - * LIMITING THE SIZE OF THE CLEARING AND TIME OF EXPOSURE BY PROPER SCHEDULING.
 - * REDUCING THE AMOUNT OF RUNOFF OVER THE DISTURBED SURFACE,
 - * LIMITING GRADES AND LENGTHS OF SLOPES, AND
 - * RE-ESTABLISHING PROTECTIVE COVER IMMEDIATELY AFTER LAND DUSTURBING ACTIVITIES ARE COMPLETED OR WHEN CONSTRUCTION ACTIVITES ARE DELAYED FOR THIRTY (30) OR MORE
- 7. STABILIZE CONSTRUCTION ACCESS AREAS, CONSTRUCTION ROADS, AND PARKING AREA DURING INITIAL ACTIVITIES.TRY TO KEEP ROAD GRADES TO A MINIMUM GENERALLY NEVER EXCEEDING 12%.
- 8. CLEAR BORROW AND WASTE DISPOSAL AREAS AS NEEDED AND PROTECT THEM FROM SURFACE RUNOFF. SLOPE ALL AREAS TO PROVIDE POSITIVE DRAINAGE, AND STABILIZE BARE SOIL SURFACES WITH PERMANENT VEGETATION OR MULCH AS SOON AS FINAL GRADES ARE PREPARED DIRECT ALL RUNOFF THAT CONTAINS SEDIMENT TO A SEDIMENT-TRAPPING DEVICE. IN LARGE BORROW AND DISPOSAL SITES, SHAPE AND DEEPEN THE LOWER END TO FORM AN IN-PLACE SEDIMENT TRAP.
- 9. ONLY SEDIMENT-FREE RUNOFF MAY BE DISCHARGED FROM CONSTRUCTION SITES DIRECTLY INTO STREAMS. ENSURE THAT ALL OTHER FLOWS ENTER FROM DESILTING POOLS FORMED BY SEDIMENT TRAPS OR BARR TERS.
- 10. AREAS ADJOINING STREAMS SHOULD BE LEFT UNDISTURBED AS BUFFERS, WHERE NATURAL BUFFERS ARE NOT AVAILABLE, PROVIDE ARTIFICIAL BUFFERS, WHERE WORK IS REQUIRED ALONG A STREAM, PROVIDE MECHANICAL OR ARTIFICIAL BUFFER (25 FEET MINIMUM REQUIRED).
- 11. BEFORE MOVING TO NEXT JOB SITE, REVIEW ALL MEASURES FOR EFFECTIVENESS; MAKE ANY ADJUSTMENTS, CLEAR-OUTS, OR REPAIR: CALL ROADSIDE ENVIRONMENTAL DEPARTMENT FOR INSTALLATION OF A DITCH LINER AND SEEDING AND MULCHING OF ALL DISTURBED AREAS.
- 12. CONTINUE TO CHECK AND MAINTAIN ALL MEASURES AFTER EACH SIGNIFICANT RAINFALL UNTIL ALL DISTURBED AREAS BECOME STABILIZED.
- 13. FILL IN ALL SILT BASINS AND SILT DITCHES. REMOVE ALL SILT FENCES AND SLOPE DRAINS. REDISTRIBUTE ALL STONE FROM SILT CHECKS, SEDIMENT DAMS, AND SILT SCREENS, SEED AND MULCH DISTURBED AREAS.

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