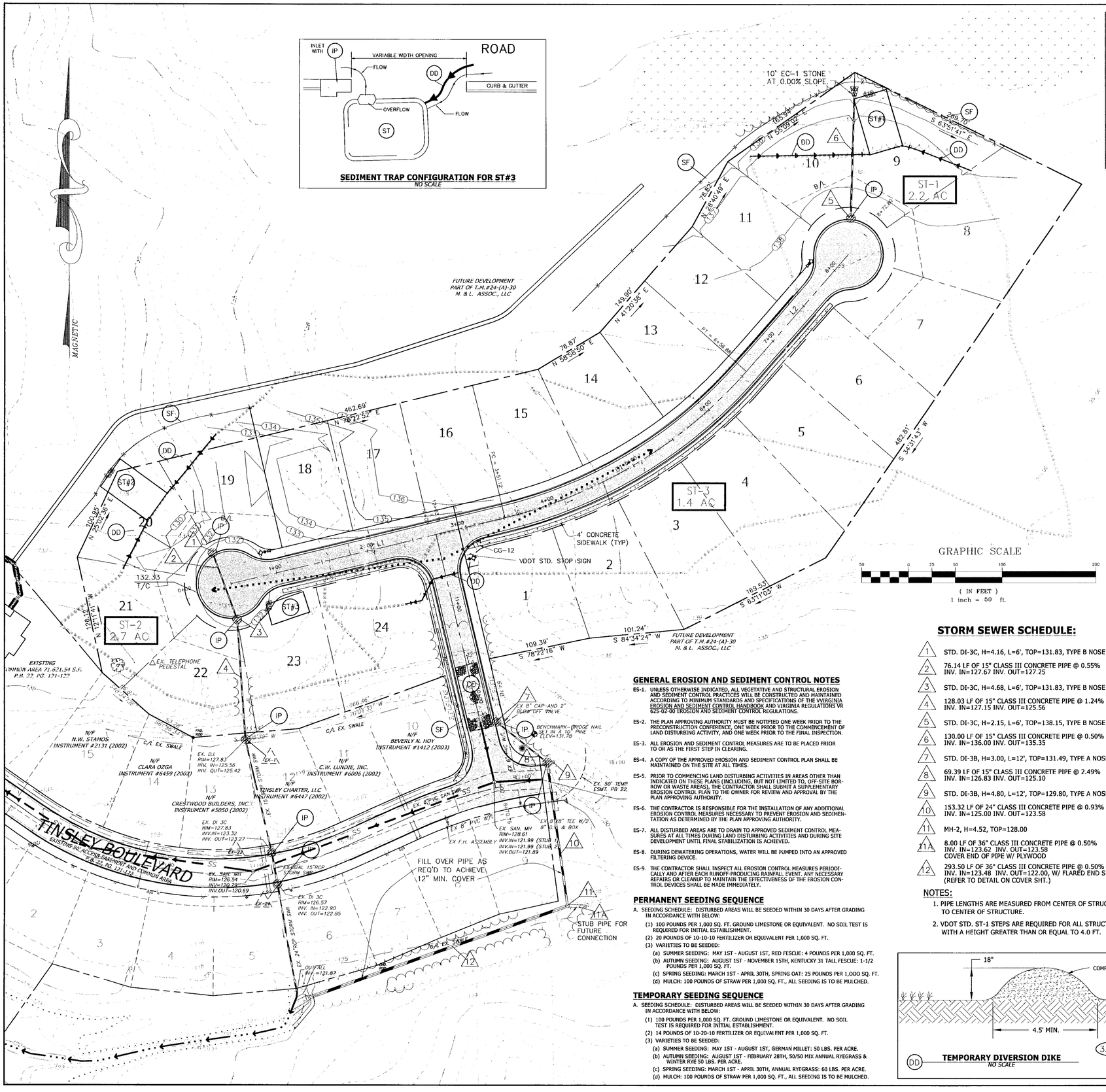
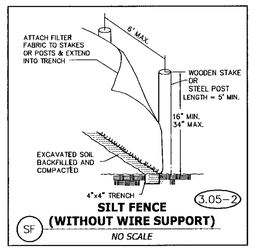
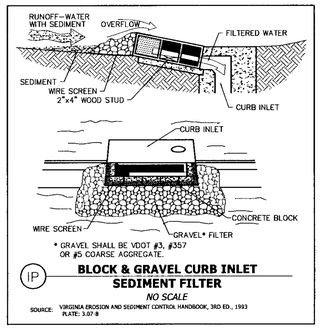



## EROSION CONTROL NARATIVE

THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT SECTION TWO OF THE TINSLEY CHARTER PLANNED COMMUNITY. TINSLEY CHARTER IS A 22± ACRE COMMUNITY LOCATED IN PRINCE GEORGE COUNTY, VIRGINIA OFF ROUTE 616, LAUREL SPRING ROAD, IN THE VICINITY OF THE PRINCE GEORGE COUNTY COURTHOUSE. SECTION TWO SHALL CONSIST OF 24 SINGLE FAMILY LOTS AVERAGING .30 ACRES. DURING THE CONSTRUCTION OF THE PRIMARY INFRASTRUCTURE, 3.04± ACRES WILL BE DISTURBED.

THE AREA OF SECTION TWO IS PREDOMINANTLY CLEAR WITH A GENERALLY ROLLING TOPOGRAPHY (SLOPES VARY FROM 2 TO 8%). THE STORMWATER DRAINAGE WILL BE CONTAINED BY A CURB AND GUTTER TYPE SYSTEM AND WILL PREDOMINANTLY OUTFALL TO THE EXISTING BASIN DESIGNED TO HANDLE SECTION TWO AND FUTURE SECTION THREE POST-DEVELOPED RUN-OFF. THE BASIN WAS PREVIOUSLY CONSTRUCTED ALONG WITH SECTION ONE.

THE EXISTING DRAINAGE PATTERN IS DIVIDED ACROSS THE PARCEL WITH A NATURAL RIDGE GENERALLY DIVIDING THE RUN-OFF. EXISTING LAND USE TO THE EAST OF THE SITE IS RESIDENTIAL AND WILL NOT BE DIRECTLY AFFECTED BY THE DESIGNED RUNOFF.

EROSION CONTROL MEASURES SHALL BE TAKEN AT EACH STEP OF THE CONSTRUCTION SEQUENCE TO INCLUDE INLET PROTECTION, A CONSTRUCTION ENTRANCE, SILT FENCING, TEMP SEDIMENT TRAPS, AND A DIVERSION DIKE. A BOUNDARY OF SILT FENCE WILL BE CONSTRUCTED ALONG THE BACK PORTION OF THE NORTH EASTERN MOST LOTS. THESE PARTICULAR LOTS BACK UP TO EXISTING WETLANDS.

## EROSION CONTROL SEQUENCE OF CONSTRUCTION

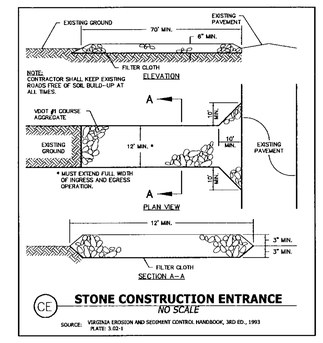
1. NOTIFY THE INSPECTOR WITH THE PRINCE GEORGE COUNTY PLANNING DEPARTMENT AT 733-2608 FOR A PRECONSTRUCTION MEETING AND ON-SITE VISIT ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
2. INSTALL CONSTRUCTION ENTRANCE, INLET PROTECTION TO EXISTING STRUCTURES, SILT FENCE, TEMPORARY SEDIMENT TRAPS AND DIVERSION DIKE AS PER PLAN.
3. CLEAR ROADS AND EASEMENTS.
4. BEGIN ROUGH GRADING OF ROADS.
5. INSTALL STORM SEWER
6. INSTALL INLET PROTECTION AT ALL NEW DROP INLETS; AND IN ADDITION TO CONTINUING MAINTENANCE (NOTES 14 AND ES-9 - THIS SHEET), CLEAN DEBRIS FROM INLET PROTECTION INSTALLED AT EXISTING STRUCTURES (SEE ITEM 2).
7. INSTALL UTILITIES AS PER PLAN.
8. INSTALL CURB AND GUTTER AS PER PLAN.
9. SEED & MULCH 10' BEHIND CURB & GUTTER AS SOON AS POSSIBLE AFTER INSTALLATION OF CURB & GUTTER.
10. FINE GRADE ROADS.
11. PLACEMENT OF BASE STONE SHALL OCCUR AS SOON AS SUB-GRADE IS REACHED TO MINIMIZE SEDIMENT CONVEYANCE, AND AID IN CONSTRUCTION DUST CONTROL.
12. SEED DENUDED AREAS AS SOON AS POSSIBLE AND MULCH ALL DISTURBED AREAS.
13. PLACE PAVEMENT AS SHOWN ON PLANS.
14. CONTRACTOR SHALL PERFORM CONTINUING MAINTENANCE PRACTICES TO ENSURE PROTECTION OF DOWNSTREAM PROPERTIES (SEE NOTE ES-9 THIS SHEET).
15. NO EROSION CONTROL DEVICE SHALL BE REMOVED UNTIL AN ADEQUATE STAND OF GRASS HAS BEEN OBTAINED.

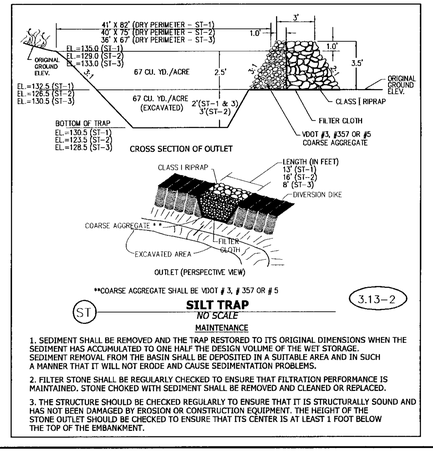
## STORM SEWER SCHEDULE:

| | |
|---|---|
| 1 | STD. DI-3C, H=4.16, L=6', TOP=131.83, TYPE B NOSE |
| 2 | 76.14 LF OF 15" CLASS III CONCRETE PIPE @ 0.55% INV. IN=127.67 INV. OUT=127.25 |
| 3 | STD. DI-3C, H=4.68, L=6', TOP=131.83, TYPE B NOSE |
| 4 | 128.03 LF OF 15" CLASS III CONCRETE PIPE @ 1.24% INV. IN=127.15 INV. OUT=125.56 |
| 5 | STD. DI-3C, H=2.15, L=6', TOP=138.15, TYPE B NOSE |
| 6 | 130.00 LF OF 15" CLASS III CONCRETE PIPE @ 0.50% INV. IN=136.00 INV. OUT=135.35 |
| 7 | STD. DI-3B, H=3.00, L=12', TOP=131.49, TYPE A NOSE |
| 8 | 69.39 LF OF 15" CLASS III CONCRETE PIPE @ 2.49% INV. IN=126.83 INV. OUT=125.10 |
| 9 | STD. DI-3B, H=4.80, L=12', TOP=129.80, TYPE A NOSE |
| 10 | 153.32 LF OF 24" CLASS III CONCRETE PIPE @ 0.93% INV. IN=125.00 INV. OUT=123.58 |
| 11 | MH-2, H=4.52, TOP=128.00 |
| 11A | 8.00 LF OF 36" CLASS III CONCRETE PIPE @ 0.50% INV. IN=123.62 INV. OUT=123.58 COVER END OF PIPE W/ PLYWOOD |
| 12 | 293.50 LF OF 36" CLASS III CONCRETE PIPE @ 0.50% INV. IN=123.48 INV. OUT=122.00, W/ FLARED END SECTION (REFER TO DETAIL ON COVER SHT.) |

NOTES:

1. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
2. VDOT STD. ST-1 STEPS ARE REQUIRED FOR ALL STRUCTURES WITH A HEIGHT GREATER THAN OR EQUAL TO 4.0 FT.




## GENERAL EROSION AND SEDIMENT CONTROL NOTES

ES-1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VVIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ES-4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ES-5. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-9. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

## PERMANENT SEEDING SEQUENCE

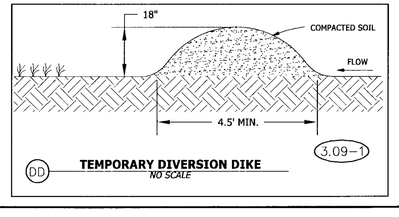
A. SEEDING SCHEDULE: DISTURBED AREAS WILL BE SEEDED WITHIN 30 DAYS AFTER GRADING IN ACCORDANCE WITH BELOW:

(1) 100 POUNDS PER 1,000 SQ. FT. GROUND LIMESTONE OR EQUIVALENT. NO SOIL TEST IS REQUIRED FOR INITIAL ESTABLISHMENT.
(2) 20 POUNDS OF 10-10-10 FERTILIZER OR EQUIVALENT PER 1,000 SQ. FT.
(3) VARIETIES TO BE SEEDED:
(a) SUMMER SEEDING: MAY 1ST - AUGUST 1ST, RED FESCUE: 4 POUNDS PER 1,000 SQ. FT.
(b) AUTUMN SEEDING: AUGUST 1ST - NOVEMBER 15TH, KENTUCKY 31 TALL FESCUE: 1-1/2 POUNDS PER 1,000 SQ. FT.
(c) SPRING SEEDING: MARCH 1ST - APRIL 30TH, SPRING OAT: 25 POUNDS PER 1,000 SQ. FT.
(d) MULCH: 100 POUNDS OF STRAW PER 1,000 SQ. FT., ALL SEEDING IS TO BE MULCHED.

## TEMPORARY SEEDING SEQUENCE

A. SEEDING SCHEDULE: DISTURBED AREAS WILL BE SEEDED WITHIN 30 DAYS AFTER GRADING IN ACCORDANCE WITH BELOW:

(1) 100 POUNDS PER 1,000 SQ. FT. GROUND LIMESTONE OR EQUIVALENT. NO SOIL TEST IS REQUIRED FOR INITIAL ESTABLISHMENT.
(2) 14 POUNDS OF 10-20-10 FERTILIZER OR EQUIVALENT PER 1,000 SQ. FT.
(3) VARIETIES TO BE SEEDED:
(a) SUMMER SEEDING: MAY 1ST - AUGUST 1ST, GERMAN MILLET: 50 LBS. PER ACRE.
(b) AUTUMN SEEDING: AUGUST 1ST - FEBRUARY 28TH, 50/50 MIX ANNUAL RYEGRASS & WINTER RYE 50 LBS. PER ACRE.
(c) SPRING SEEDING: MARCH 1ST - APRIL 30TH, ANNUAL RYEGRASS: 60 LBS. PER ACRE.
(d) MULCH: 100 POUNDS OF STRAW PER 1,000 SQ. FT., ALL SEEDING IS TO BE MULCHED.




COMMONWEALTH OF VIRGINIA
STEVEN M. WORTHINGTON
032863
8 SEP 2003
PROFESSIONAL ENGINEER

VIRGINIA | NORTH CAROLINA | WEST VIRGINIA

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|---|---|
| REVISED PER COUNTY COMMENTS | 7/07/03 |
| REVISED PER COUNTY COMMENTS | 8/07/03 |
| REVISED PER COUNTY COMMENTS | 9/05/03 |

| | |
|---|---|
| DATE | 2/24/03 |
| DRAWN BY | JMD |
| DESIGNED BY | SMW |
| CHECKED BY | SMW |
| SCALE | 1"=50' |

# TIMMONS GROUP

# TINSLEY CHARTER SECTION 2

## GRADING AND E&S PLAN

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|---|---|
| JOB NO. | 20822 |
| SHEET NO. | 5 |

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