

STANDARD HEADWALL WITH WINGWALL DETAIL N.T.S.

RIGHT OF WAY VARIES

CONCRETE DRIVEWAY APRON

Not to Scale

BELGIAN BLOCK CURB Not to Scale

5/4" WIDE MAX, JOINTS TO BE GLEANED AND
POINTED WITH TYPE 2 CEMENT HORTAR MIX

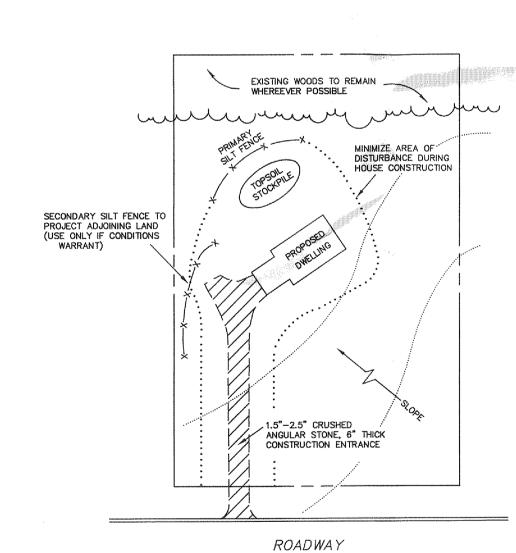
3500 PSI CONCRETE AT 28 DAYS

12" WIDE DRIVEWAY (MIN) (4" DGA-3/4" DUARRY BLEND STONE-MIN.)

CONCRETE DRIVEWAY AFRON

1/4" PER FOOT SLOPE 12.5% WAX SLOPE

I.D.	HW6	8WH	HW10
Α	4'	3'	5'
В	3.46'	2.59'	4.32'
С	6'	4.5'	7.5'
Н	3'	2.5	3.5'
D	2'	1.5'	2.5



TYP. SOIL EROSION & SEDIMENT CONTROL PLAN FOR INDIVIDUAL LOTS

SEQUENCE OF CONSTRUCTION

0-3 DAYS INSTALL TRACKING PADS, SILT FENCES. STRIP AND STOCKPILE TOPSOIL (STABILIZE). 3-14 DAYS CONSTRUCT TEMPORARY SILTATION BASIN AT ELEVATION 141.0 WITH A 15" PERFORATED RISER ENCASED IN RIP-RAP, SEE DETAIL. 14-30 DAYS ROUGH GRADE SITE, INSTALL DRAINAGE AND INLET FILTERS, INSTALL SANITARY SEWERS. 30-65 DAYS CONSTRUCT CURBING, UTILITY CONECTIONS & 65-75 DAYS FINE GRADE AND PERMANENT STABILIZATION. 75-365 DAYS CONSTRUCT HOMES, LANDSCAPING, COMPLETE

SOIL DISTURBANCES AND PERMANENT STABILIZE

PROFESSIONAL ENGINEER AND LAND SURVEYOR

N.J. LIC. # 25136

OUTLET STRUCTURE, INSTALL SAND FILTER.

365-375 DAYS FINE GRADE PERMANENT DETENTION BASIN, MODIFY

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

- 1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE IN ACCORDANCE WITH THE "STANDARD FOR SOIL EROSION CONTROL IN NEW JERSEY".
- 2. WRITTEN NOTIFICATION SHALL BE GIVEN TO THE TOWNSHIP ENGINEER AND THE SOIL CONSERVATION DISTRICT 48 HOUR PRIOR TO THE START OF ANY LAND DISTURBANCE.
- 3. THE SITE SHALL HAVE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF A SIX INCH BLANKET OF 1.5 TO 2 INCH CRUSHED ANGULAR STONE (ASTM # 2 OR 3) FOR A LENGTH AS SPECIFIED ON THE SOIL
- EROSION PLAN. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED ADEQUATELY TO PREVENT TRACKING
- 4. ALL SOIL TO STOCKPILES FOR A PERIOD OF GREATER THAN 30 DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED. STOCKPILES SHALL NOT BE LOCATED IN DRAINAGEWAYS AND SHALL BE PROTECTED BY SILT FENCE
- AS SHOWN ON THE SOIL EROSION PLAN. 5. ALL DRAINAGE INLETS ARE TO BE PROTECTED DURING CONSTRUCTION OR UNTIL GROUND COVER IS ESTABLISHED
- LISHED SUFFICIENTLY TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM. INLET PROTECTION SHALL BE IN ACCORDANCE WITH THE SOIL EROSION PLAN AND ADEQUATELY MAINTAINED DURING CONSTRUCTION.
- 7. ALL REVISIONS AFTER DISTRICT APPROVAL HAS BEEN GRANTED MUST BE FORWARDED TO THE
- DISTRICT FOR REVIEW. 8. IN THAT N.J.S.A. 4: 24-39 REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND SUBDIVISIONS WILL HAVE TO BE COMPLIED WITH PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF

6. ALL STORM DRAINAGE OUTLETS TO BE STABILIZED AS SHOWN ON THE SOIL EROSION PLAN PRIOR TO

AGRONOMIC SPECIFICATIONS FOR LAWNS AND CONSTRUCTION SITES

GENERAL

- ALL DISTURBED AREAS THAT ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION, OR NOT SCHEDULED TO BE PERMANENTLY SEEDED WITHIN 30 DAYS MUST BE TEMPORARILY STABILIZED AS PER SPECIFICATIONS BELOW.
- 2. ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED ARE TO BE SEEDED AND MULCHED WITHIN 10 DAYS OF FINAL GRADING.
- 3. STRAW MULCH (HAY MULCH MAY BE SUBSTITUTED IF APPROVED BY THE DISTRICT) IS TO BE APPLIED TO ALL SEEDINGS AT THE RATE OF 1.5 - 2 TONS PER ACRE (APPROXIMATELY 100 - 130 BALES PER ACRE).
- 4. MULCH ANCHORING IS REQUIRED AFTER MULCHING TO MINIMIZE LOSS BY WIND OR WATER. THIS IS TO BE DONE USING ONE OF THE METHODS (CRIMPING, LIQUID MULCH BINDERS, NETTINGS, ETC.) IN THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- 5. EXISTING WEEDY AND POORLY VEGETATED AREAS WITH LESS THAN 75 PERCENT PERENNIAL GRASS COVER MUST RECEIVE PERMANENT STABILIZATION AS SPECIFIED BELOW.
- 6. ALL BAGS NEED TO BE SAVED FOR LIME, FERTILIZER, SEED AND LIQUID MULCH BINDER (IF MULCH ANCHORING METHOD). SUCH PROOFS NEED TO BE SUBMITTED TO THE DISTRICT INSPECTOR FOR VERIFICATION OF MATERIALS AND QUANTITIES USED FOR ALL SEEDINGS.
- 7. AN ADDITIONAL FEE OF \$100.00 PER INSPECTION WILL BE ASSESSED ON THOSE SITES WHERE ADDITIONAL INSPECTIONS ARE NECESSITATED AS A RESULT OF NON—COMPLIANCE WITH THE APPROVED PLAN. THIS INCLUDES ADDITIONAL INSPECTIONS PERFORM AFTER THE FAILURE OF AN INITIAL REPORT OF COMPLIANCE INSPECTION. THE ENTIRE PROJECT SITE IS INSPECTED AT THE TIME OF A REQUEST FOR REPORT COMPLIANCE.

SEED-BED PREPARATION FOR ALL SEEDINGS

SUB-SOIL PREPARATION: IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SURFACE SHOULD BE SCARIFIED TO A DEPTH OF 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION (e.g. AREA OF HEAVY CONSTRUCTION TRAFFIC). THIS PRACTICE IS TO BE APPLIED TO ALL COMPACTED AREAS WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

TOPSOILING : AREAS TO BE SEEDED SHOULD HAVE A MINIMUM OF 5" OF FRIABLE, LOAMY, TOPSOIL FREE OF OBJECTIONABLE WEEDS, STONES AND DEBRIS.

FINAL GRADING: GRADING IS TO BE SMOOTH OF RUTS AND FREE OF OBJECTIONABLE STONES, DEPRESSIONS, VEHICLE TRACKS, AND ROUGH EDGES. THERE IS TO BE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND DWELLINGS. REFUSE FROM SEEDBED PREPARATION (ROOTS, STICKS, STONES, CONSTRUCTION DEBRIS) MUST BE

<u>LIMING/FERTILIZING:</u> APPLY LIMESTONE AND FERTILIZER TO SOIL TEST RECOMMENDATIONS OR AS FOLLOWS: A. LIME IS TO BE APPLIED AT THE RATE OF 2 TONS (4,000 LBS.) PER ACRE. LIME MAY BE ANY PRODUCT TYPE AS LONG AS THE CCE CALCIUM CARBONATE EQUIVALENCY = 2 TONS PER ACRE. PELLETIZED AND LIQUID PRODUCTS MAY BE PREFERRED BECAUSE OF THEIR LACK OF DUST AND EASE OF HANDLING BUT MUST MEET THE FORE-MENTIONED CRITERIA.

B. STARTER FERTILIZER, SPECIFIED AS 10-20-10, IS TO BE APPLIED AT 500 LBS. PER ACRE. C. LIME AND FERTILIZER ARE TO BE WORK INTO THE SOIL TO A DEPTH OF 4 INCHES.

TEMPORARY STABILIZATION WITH MULCH ONLY

STRAW MULCH (HAY MULCH MAY BE SUBSTITUTED IF APPROVED BY THE DISTRICT) IS TO BE SPREAD UNIFORMLY AT THE RATE OF 2 TO 2-1/2 TONS PER ACRE (TOTAL GROUND SURFACE COVERAGE). THIS PRACTICE IS TO LIMITED TO PERIODS WHEN VEGETATIVE COVER CANNOT BE ESTABLISHED DUE TO THE SEASON OR OTHER CONDITIONS. MULCH MUST BE ANCHORED IN ACCORDANCE WITH NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL. MULCH MATERIALS MAY BE UTILIZED IF APPROVED BY THE DISTRICT.

TEMPORARY SEEDING

TEMPORARY SEEDING IS TO BE USED ON ALL DISTURBED AREAS WHERE PERMANENT STABILIZATION WILL NOT BE ACCOMPLISHED FOR A PERIOD OF UP TO 6 MONTHS.

5/15-8/15

5/15-8/15

RECOMMENDED OPTIMUM SEEDING DATES PERENNIAL RYEGRASS 100 LBS. PER ACRE 3/15-5/15 & 8/15-10/1 3/15-6/1 & 8/1-10/1 SPRING OATS 86 LBS. PER ACRE WINTER CEREAL RYE 112 LBS. PER ACRE WINTER BARLEY 96 LBS. PER ACRE 8/15-10/1

20 LBS. PER ACRE

STABILIZATION WITH SOD

STABILIZATION WITH SOD IS PERMITTED IN AREAS WHERE MAINTENANCE AND IRRIGATION ARE ADEQUATE TO INSURE PROPER ESTABLISHMENT AND LONGEVITY. SEEDBED PREPARATION IS TO BE CONSISTENT WITH ANY OTHER STABIL-IZATION REQUIREMENTS. (LIME AND FERTILIZER BAGS ARE TO BE RETAINED FOR DISTRICT INSPECTION). ON SLOPES GREATER THAN 3 TO 1, SOD MUST BE PROPERLY ANCHORED TO THE SLOPE IN ACCORDANCE WITH THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.

PERMANENT SEEDING

A. SEED IS TO BE INCORPORATED INTO THE SOIL 1/4 INCH TO 1/2 INCH.

GERMAN OR HUNGARIAN MILLET 30 LBS. PER ACRE

- B. LAWN SEEDINGS ARE TO BE A MIXTURE OF BLUEGRASSES, TURF—TYPE FESCUES AND TURF—TYPE PERENNIAL GERMINATION TEST DATE OF MORE THAN 12 MONTHS OLD UNLESS RETESTED.

 RYEGRASSES TO INSURE LONGEVITY, TOLERANCE AND DURABILITY. NO SEED SHALL BE ACCEPTED WITH A
- C. PROFESSIONAL SEED MIXTURES ARE RECOMMENDED RATHER THAN MIXING SEEDS YOURSELF.
- D. SEED MIXTURE (AS SPECIFIED BELOW) IS TO BE APPLIED AT A MINIMUM RATE OF 200 LBS. PER ACRE OF E. OPTIMUM SEEDING PERIOD FOR COUNTY IS FROM MARCH 1 TO MAY 15 AND AUGUST 15 TO OCTOBER 1.
- OUTSIDE OF THOSE PERIODS, THE SEEDING RATES ARE TO BE INCREASED BY 50 % (I.E. : 300 LBS. PER ACRE OF PERENNIAL SEED INSTEAD OF THE REQUIRED 200 LBS. PER ACRE DURING OPTIMUM PERIODS).
- F. SEEDINGS SHOULD RECEIVE AN APPLICATION OF FERTILIZER SUCH AS 10—10—10 OR EQUIVALENT AT 400 LBS. PER ACRE APPROXIMATELY SIX MONTHS AFTER FIRST APPLICATION.

SEEDING MIXTURE FOR GENERAL SEEDING

(EXAMPLE : LAWNS) 40 % TURF-TYPE TALL FESCUE 60 % KENTUCKY BLUEGRASS

10 % CREEPING RED FESCUE 20 % TURF-TYPE PERENNIAL RYEGRASS 10 % CHEWINGS FESCUE 20 % CHEWINGS FESCUE 10 % KENTUCKY BLUEGRASS

30 % TURF-TYPE PERENNIAL RYEGRASS

SEEDING MIXTURE FOR HIGH TRAFFIC & CRITICAL AREAS (EXAMPLE : ATHLETIC FIELDS, WATERWAYS, DIVERSIONS, ETC.)

80 % TURF-TYPE TALL FESCUE 10 % KENTUCKY BLUEGRASS

PEARL MILLET

10 % TURF-TYPE PERENNIAL RYEGRASS

OTHER SEED MIXTURES, SUCH AS BLENDED VARIETIES OF PERENNIAL TURF-TYPE RYE GRASS, TURF-TYPE TALL FESCUES, OR BLUEGRASS MAY ALSO BE ACCEPTABLE IF APPROVED BY THE DISTRICT.

> ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE TOWNSHIP OF BRANCHBURG STANDARD CONSTRUCTION DETAILS

REVISION	DATE	Templin Engineering Associate		
PER APPROVAL	6-2-06	Engineering - Surveying 861 EISENHOWER AVENUE BRIDGEWATER, NJ 08807		
PER D.E.P.	5-18-07			
PER REVIEW	10-1-07			
PER REVIEW	12-12-07			
PER DEP REVIEW	10-13-14	PHONE: (908) 231-1616 FAX: (908) 231-		
ENGINEERS REVIEW	3-29-15			
ENGINEERS REVIEW	7-10-15	Robert J. Templin		
ENGINEERS REVIEW	8-31-15			
ENGINEERS REVIEW	10-14-15			

PROFILE - DRAINAGE EASEMENTS / DETAILS

PRELIMINARY MAJOR SUBDIVISION OF

FLATWATER DEVELOPMENT, INC. BRANCHBURG TOWNSHIP, SOMERSET COUNTY

NEW JERSEY

BLOCK 60 LOT 7

FILE NO. 03-013 DESIGNED BY : DRAWN BY: T.M. | SCALE: N.T.S. 2-17-04