

EROSION & SEDIMENTATION CONTROL

1. MINIMIZATION OF EXPOSED SOIL AREAS

IN ORDER TO PROTECT DOWNGRADIENT AREAS AND BUFFERS, AND TO AVOID POTENTIAL EROSION OF ANY OPEN DRAINAGE CHANNELS, SWALES, OR OTHER NATURAL RESOURCES, THE CONTRACTOR SHALL...

2. SEDIMENT PREVENTION CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS ON SITE, INCLUDING STORAGE FACILITIES...

3. SEDIMENT BARRIERS PRIOR TO SOIL DISTURBANCE, THE CONTRACTOR SHALL PROPERLY INSTALL SEDIMENT BARRIERS ACROSS OR AT THE TOE OF A SLOPE AND AT THE DOWNGRADIENT EDGE OF ANY DISTURBED AREA...

4. TEMPORARY CHECK DAMS MAY BE CONSTRUCTED OF EITHER STONE OR CONTAINED BERRIS OF EROSION CONTROL MIX. TEMPORARY CHECK DAMS ALSO MAY TRAP SMALL AMOUNTS OF SEDIMENT BUT SHALL NOT BE USED IN PLACE OF SEDIMENT BARRIERS...

5. STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE START OF CONSTRUCTION, IF A STABILIZED CONSTRUCTION ENTRANCE IS NOT ALREADY AVAILABLE, THE CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE/EXIT AT THE POINT OF ACCESS TO THE EXISTING ROAD...

6. STOREDRAIN INLET PROTECTION IS A SEDIMENT FILTER INSTALLED ALONG A STOREDRAIN DROP INLET OR CURB INLET TO PREVENT SEDIMENT FROM ENTERING DRAINAGE SYSTEM PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA...

7. STOREDRAIN CHANNELS, DITCHES, SWALES, AND OTHER OPEN STOREDRAIN CHANNELS MUST BE CONSTRUCTED AND STABILIZED USING MEASURES THAT ACHIEVE LONG-TERM EROSION CONTROL, DITCHER SWALES, AND OTHER OPEN STOREDRAIN CHANNELS SHOULD BE CONSTRUCTED IN SECTIONS SO THAT THE GRADING, SHAPING, AND INSTALLATION OF THE PERMANENT LINING ON EACH SECTION CAN BE COMPLETED WITHIN THE SAME DAY...

8. TEMPORARY STABILIZATION THE CONTRACTOR SHALL STABILIZE ANY EXPOSED SOILS THAT WILL NOT BE WORKED FOR MORE THAN 1 DAYS WITH MULCH OR OTHER NON-ERODIBLE COVER. STABILIZE AREAS WITHIN 15 FEET OF A WETLAND OR WATERBODY WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT...

9. PERMANENT STABILIZATION IF THE AREA HAS BEEN BROUGHT TO FINAL GRADE OR WILL NOT BE WORKED FOR MORE THAN ONE YEAR, THE CONTRACTOR SHALL PERMANENTLY STABILIZE THE AREA WITHIN 14 DAYS BY PLANTING GRASSES, SOGS, OR THROUGH THE USE OF PERMANENT MULCH, OR RIPRAP, OR PAVING SURFACES...
10. REMOVAL OF STABILIZATION MEASURES WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED THE CONTRACTOR SHALL REMOVE ANY TEMPORARY EROSION CONTROL MEASURES (SUCH AS SILT FENCE, ETC.) REMOVE ANY ACCUMULATED SEDIMENTS AND STABILIZE THE AREA...

11. TEMPORARY VEGETATION THE FOLLOWING SHALL APPLY IN AREAS TO RECEIVE TEMPORARY SEEDING: 1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING... 2. APPLY LIMESTONE AND FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OR 1.8 POUNDS PER 1000 SQUARE FEET... 3. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING... 4. APPLY MULCH OVER SEEDED AREA... 5. TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED AT A MINIMUM 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION...

TEMPORARY SEEDING TABLE with columns: SEED, WINTER RYE, OATS, ANNULAR TRYERGRASS, SUDANGRASS, PERENNIAL TRYERGRASS, and TEMPORARY MULCH. Includes dates and notes for application.

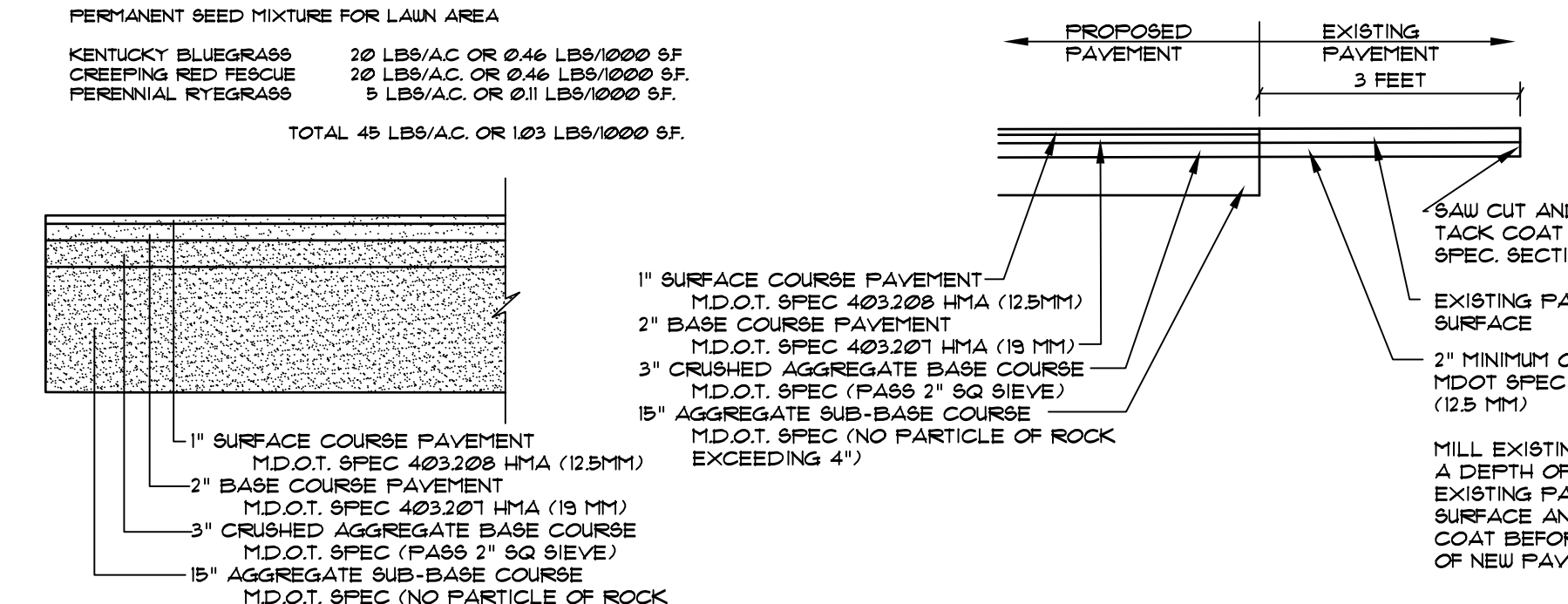
E. TEMPORARY MULCHING

APPLY TEMPORARY MULCHING TO PROTECT THE EXPOSED SOIL SURFACE AND AID IN THE GROWTH OF VEGETATION. 1. IN SENSITIVE AREAS (WITHIN 100 FT OF STREAMS, WETLANDS AND IN LAKE WATERBEDS) TEMPORARY MULCH MUST BE APPLIED WITHIN 1 DAYS OF EXPOSING SOIL OR PRIOR TO ANY STORM EVENT... 2. ON AREAS WHERE THE TIME PERIOD FROM 14 TO 30 DAYS, DEPENDING ON SITE CONDITIONS (SOIL ERODIBILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS... 3. AREAS WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDDED, SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING... 4. AREAS WHICH CANNOT BE SEEDDED WITHIN THE GROUNDING SEASON SHALL BE MULCHED FROM OVER-WINTER PROTECTION AND THE AREA SHOULD BE SEEDDED AT THE BEGINNING OF THE GROUNDING SEASON... 5. MULCH CAN BE USED IN CONJUNCTION WITH TREES, SHRUBS, VINE, AND GROUND COVER PLANTINGS... 6. MULCH ANCHORING SHOULD BE USED ON SLOPES GREATER THAN 5% IN LATE FALL (PAST SEPTEMBER 15) AND OVER-WINTER (SEPTEMBER 15 - APRIL 15)...

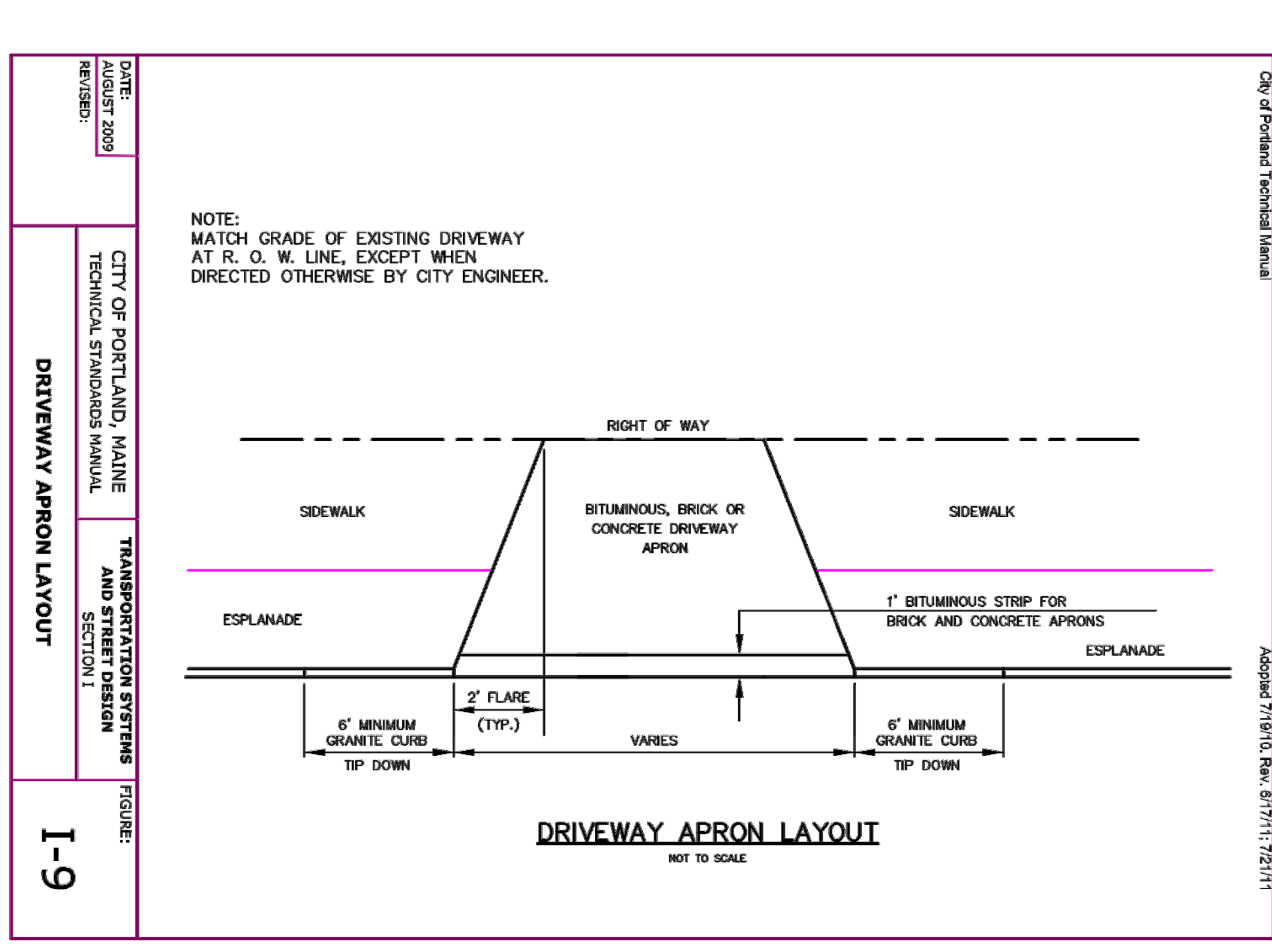
1. WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROUNDING SEASON), IT SHOULD BE APPLIED TO A DEPTH OF FOUR INCHES (50-200 LBS. OF HAY PER 1000 SQ. FT. OR DOUBLE STANDARD APPLICATION RATE). SEEDING CANNOT GENERALLY BE EXPECTED TO GROW UP THROUGH THIS DEPTH OF MULCH AND GRILL BE MOOTHERED, IF VEGETATION IS DESIRED, THE MULCH WILL NEED TO BE REMOVED IN THE SPRINGTIME AND THE AREA RESEEDED AND MULCHED... 2. ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION, IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, IT SHALL BE IMMEDIATELY APPLIED. APPLIED NETS MUST BE INSPECTED AFTER RAIN EVENTS FOR DISLOCATION OR FAILURE... 3. WINTER MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE... 4. EROSION CONTROL MIX CAN BE MANUFACTURED ON OR OFF THE PROJECT SITE... 5. EROSION CONTROL MIX SHALL BE APPLIED TO A DEPTH OF FOUR INCHES (50-200 LBS. OF HAY PER 1000 SQ. FT. OR DOUBLE STANDARD APPLICATION RATE)... 6. MULCH ANCHORING TECHNIQUES INCLUDE NETTING OVER HAY WITH UTE, WOODO FIBER OR PLASTIC NETTING ANCHORED TO THE SOIL SURFACE... 7. THE MULCH MAY BE PLACED WITH A HYDRAULIC BUCKET, WITH A PNEUMATIC BLOWER OR BY HAND... 8. ANY REQUIRED REPAIRS SHOULD BE MADE IMMEDIATELY, WITH ADDITIONAL EROSION CONTROL MIX PLACED ON TOP OF THE MULCH TO REACH THE RECOMMENDED THICKNESS... 9. EROSION CONTROL MIX MUST BE FREE OF FERTILIZERS, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH... 10. MANUFACTURED COMBINATIONS OF MULCH AND NETTING MAY BE USED... 11. THE BASE OF GRASSSED WATERWAYS... 12. STEEP SLOPES (5% OR GREATER)... 13. ANY DISTURBED SOIL WITHIN 100 FEET OF LAKES, STREAMS AND WETLANDS... 14. SIDE SLOPES OF GRASSSED WATERWAYS... 15. THERE MUST BE CARES WHERE MATS WILL BE NEEDED ON SLOPES FLATTER THAN 5%... 16. THE MOST CRITICAL ASPECT OF INSTALLING MATS IS OBTAINING FIRM CONTINUOUS CONTACT BETWEEN THE MAT AND THE SOIL... 17. EROSION CONTROL BLANKETS AND MATS... 18. MANUFACTURED COMBINATIONS OF MULCH AND NETTING MAY BE USED... 19. THE BASE OF GRASSSED WATERWAYS... 20. STEEP SLOPES (5% OR GREATER)... 21. ANY DISTURBED SOIL WITHIN 100 FEET OF LAKES, STREAMS AND WETLANDS... 22. SIDE SLOPES OF GRASSSED WATERWAYS... 23. THERE MUST BE CARES WHERE MATS WILL BE NEEDED ON SLOPES FLATTER THAN 5%... 24. THE MOST CRITICAL ASPECT OF INSTALLING MATS IS OBTAINING FIRM CONTINUOUS CONTACT BETWEEN THE MAT AND THE SOIL... 25. EROSION CONTROL BLANKETS AND MATS... 26. MANUFACTURED COMBINATIONS OF MULCH AND NETTING MAY BE USED...

F. PERMANENT VEGETATION THE FOLLOWING SHALL APPLY IN AREAS TO RECEIVE PERMANENT VEGETATION: 1. SEEDBED PREPARATION: a. GRADE AS FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION... b. APPLY LIMESTONE AND FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OR 1.8 POUNDS PER 1000 SQUARE FEET... c. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC SPRING TOOTH HARROW... 2. SEEDING DATES: a. SPRING SEEDING USUALLY GIVES THE BEST RESULTS... b. PERMANENT SEEDING SHOULD BE MADE 45 DAYS PRIOR TO THE FIRST KILLING FROST... c. IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD... 3. SEEDING: a. UNLESS OTHERWISE SPECIFIED WITHIN THE PLAN SET, THE CONTRACTOR SHALL SELECT A SEED MIXTURE THAT IS APPROPRIATE FOR THE SOIL TYPE AND MOISTURE CONTENT... b. INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE AND AMOUNT OF INOCULANT... c. APPLY SEED UNIFORMITY BY HAND, CYLINDER SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER... d. HYDROSEEDING WITH MULCH MAY BE LEFT ON SOIL SURFACE... 4. MULCHING: a. WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS... b. APPLY MULCH ACCORDING TO THE TEMPORARY MULCHING REQUIREMENTS DESCRIBED HEREIN... 5. SODDING: a. THE CONTRACTOR SHALL PREPARE THE SEEDBED IN THE CONVENTIONAL WAY OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL... b. SLOPES MUST BE NO STEEPER THAN 2 TO 1 (2 FEET HORIZONTALLY TO 1 FOOT VERTICALLY)... c. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED... d. THE CONTRACTOR SHALL USE STRAW MULCH AND HOLD IT WITH ADHESIVE... e. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING... 6. DORMANT SEEDING: DORMANT SEEDS NEED TO BE ANCHORED EXTREMELY WELL ON SLOPES, BUT SHOULD NOT BE USED IN DITCH BASES AND AREAS OF CONCENTRATED FLOODING... 7. PERMANENT SEED MIXTURE FOR LAWN AREA: KENTUCKY BLUEGRASS 20 LBS./AC OR 0.66 LBS./1000 SF, CREeping RED FESCUE 20 LBS./AC OR 0.66 LBS./1000 SF, PERENNIAL TRYERGRASS 5 LBS./AC OR 0.1 LBS./1000 SF. TOTAL 45 LBS./AC OR 1.05 LBS./1000 SF.

PERMANENT SEED MIXTURE FOR LAWN AREA
KENTUCKY BLUEGRASS 20 LBS./AC OR 0.66 LBS./1000 SF
CREeping RED FESCUE 20 LBS./AC OR 0.66 LBS./1000 SF
PERENNIAL TRYERGRASS 5 LBS./AC OR 0.1 LBS./1000 SF
TOTAL 45 LBS./AC OR 1.05 LBS./1000 SF

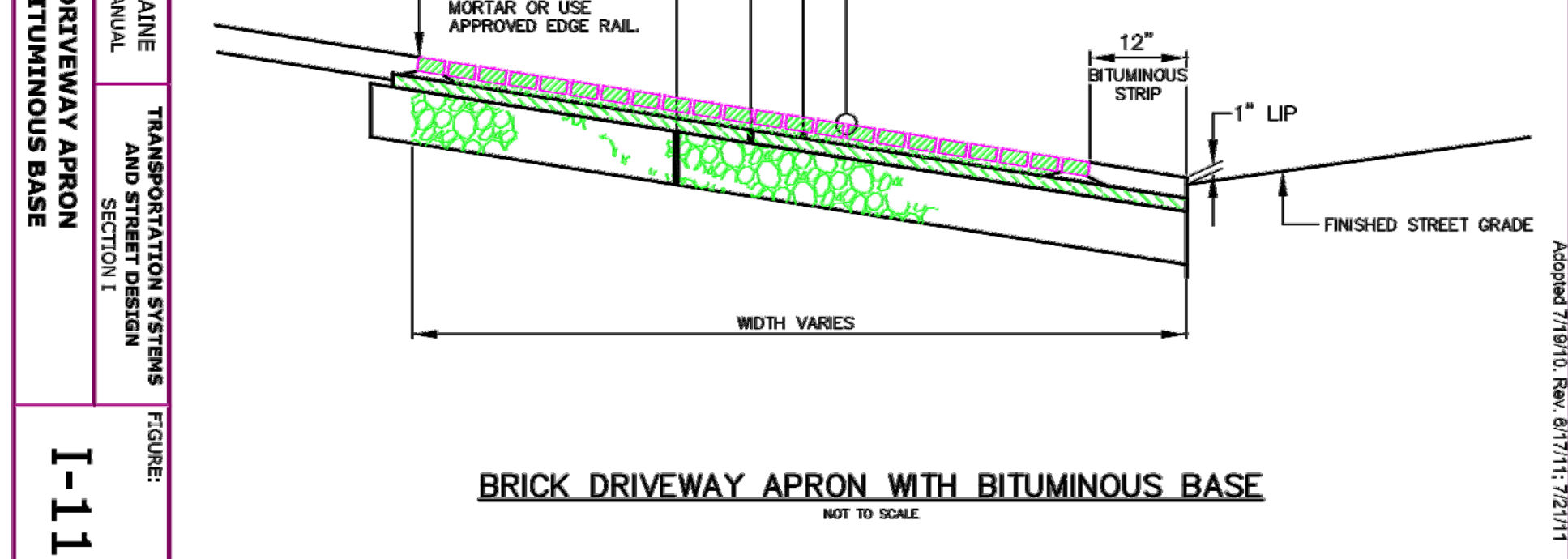


TYPICAL PAVEMENT SECTION
NOT TO SCALE



DRIVEWAY APRON LAYOUT
NOT TO SCALE

BRICKS TO BE USED:
NEW CONSTRUCTION:
4"x8" PINE HALL PATHWAY PAVER BRICK, MFG. BY PINE HALL BRICK CO., MADISON, NORTH CAROLINA, LACHANCE ITEM # 193623, PINE HALL PATHWAY PAVER BRICK.
REPAIR / MAINTENANCE TO EXISTING BRICK SIDEWALKS, VERMONT PAVER, SUPPLIED BY GAGNE AND SONS, SPECIFICATION NUMBER: 'VERMONT BACKER BRICK', ITEM NUMBER # VB88



BRICK DRIVEWAY APRON WITH BITUMINOUS BASE
NOT TO SCALE

Metadata table for drawing I-9, including date (AUGUST 2009), city (PORTLAND, MAINE), and technical standards (MUNICIPAL ENGINEERING).

Metadata table for drawing I-11, including date (AUGUST 2009), city (PORTLAND, MAINE), and technical standards (MUNICIPAL ENGINEERING).

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