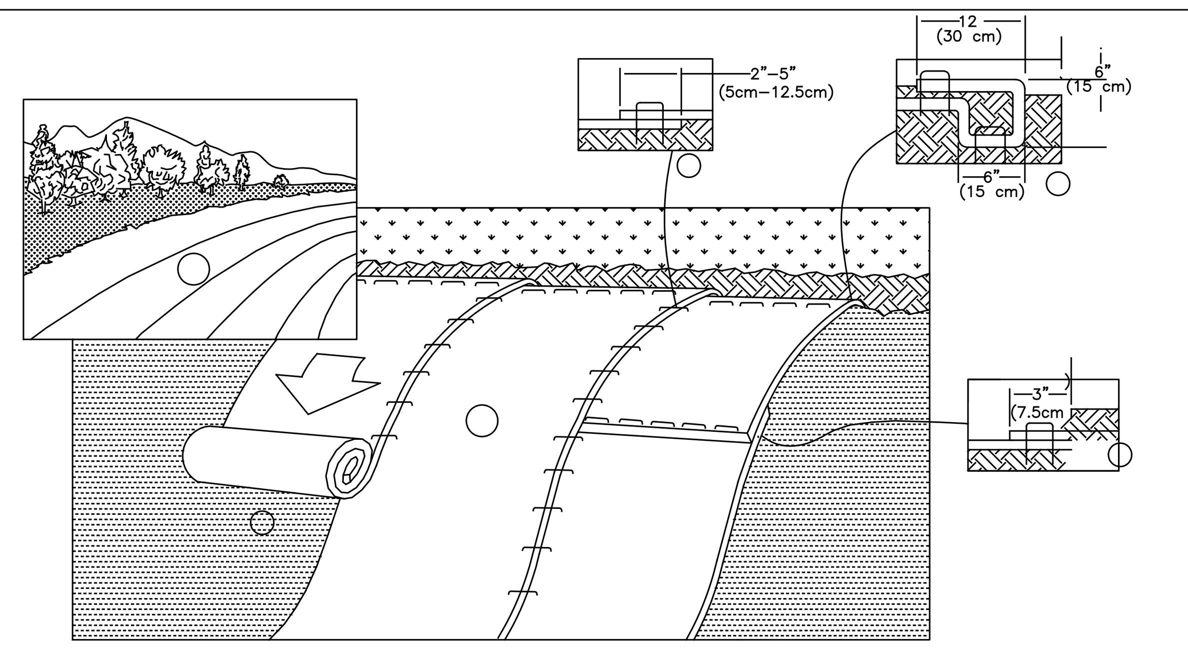

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCT (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL–O–SEED DO NOT SEED PREPARED AREA. CELL–O–SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP's EXTENDED BEYOND THE UP–SLOPE PORTION OF THE TRENCH. ANCHOR RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) OF RECP's APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF RECP's
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" – 5" (5CM – 12.5CM) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ENTIRE RECP's EDITH.

NOTE:
IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

EROSION CONTROL MATTING - SLOPE INSTALLATION

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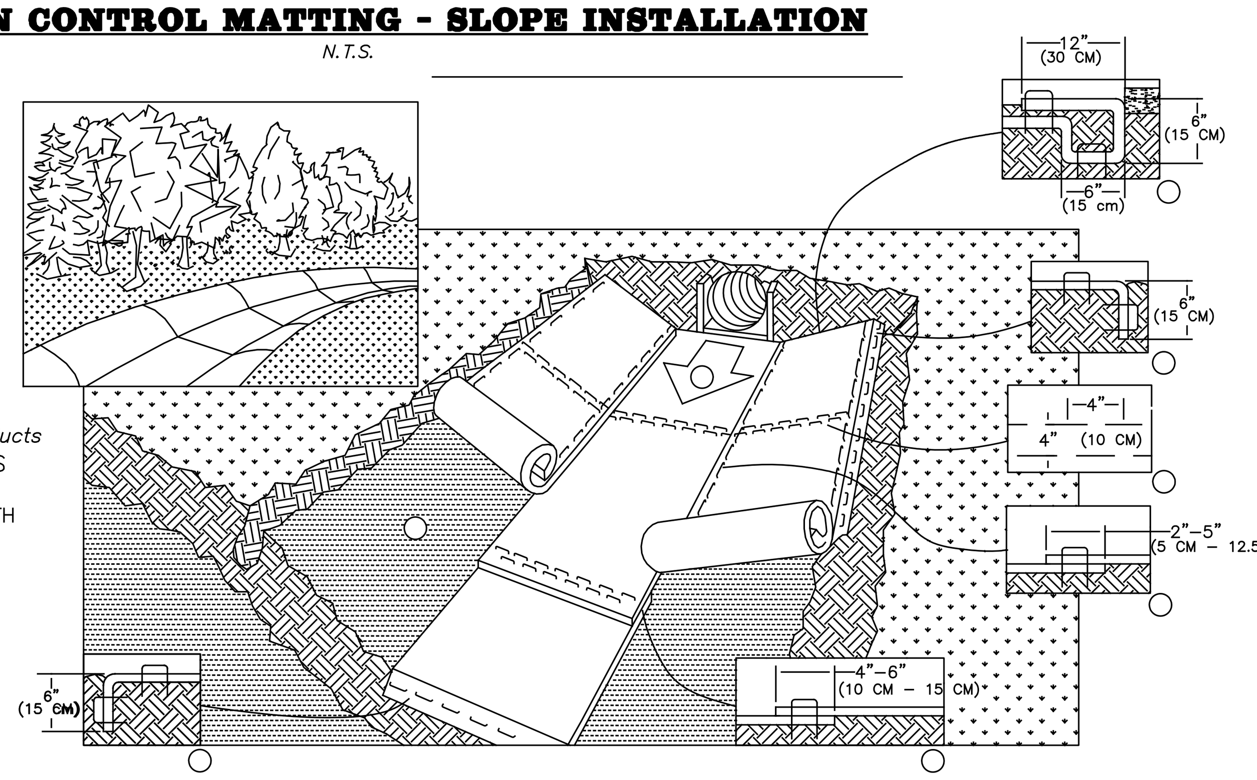

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL–O–SEED DO NOT SEED PREPARED AREA. CELL–O–SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP's EXTENDED BEYOND THE UP–SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE RECP's.
3. ROLL CENTER RECP's IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP's END OVER END (SHINGLE STYLE) WITH A 4" – 6" (10 CM –15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP's.
5. FULL LENGTH EDGE OF RECP's AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP's MUST BE OVERLAPPED APPROXIMATELY 2" – 5" (5 CM –12.5 CM) (DEPENDING ON RECP's TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M – 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP's MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

NOTE:
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

EROSION CONTROL MATTING - CHANNEL INSTALLATION

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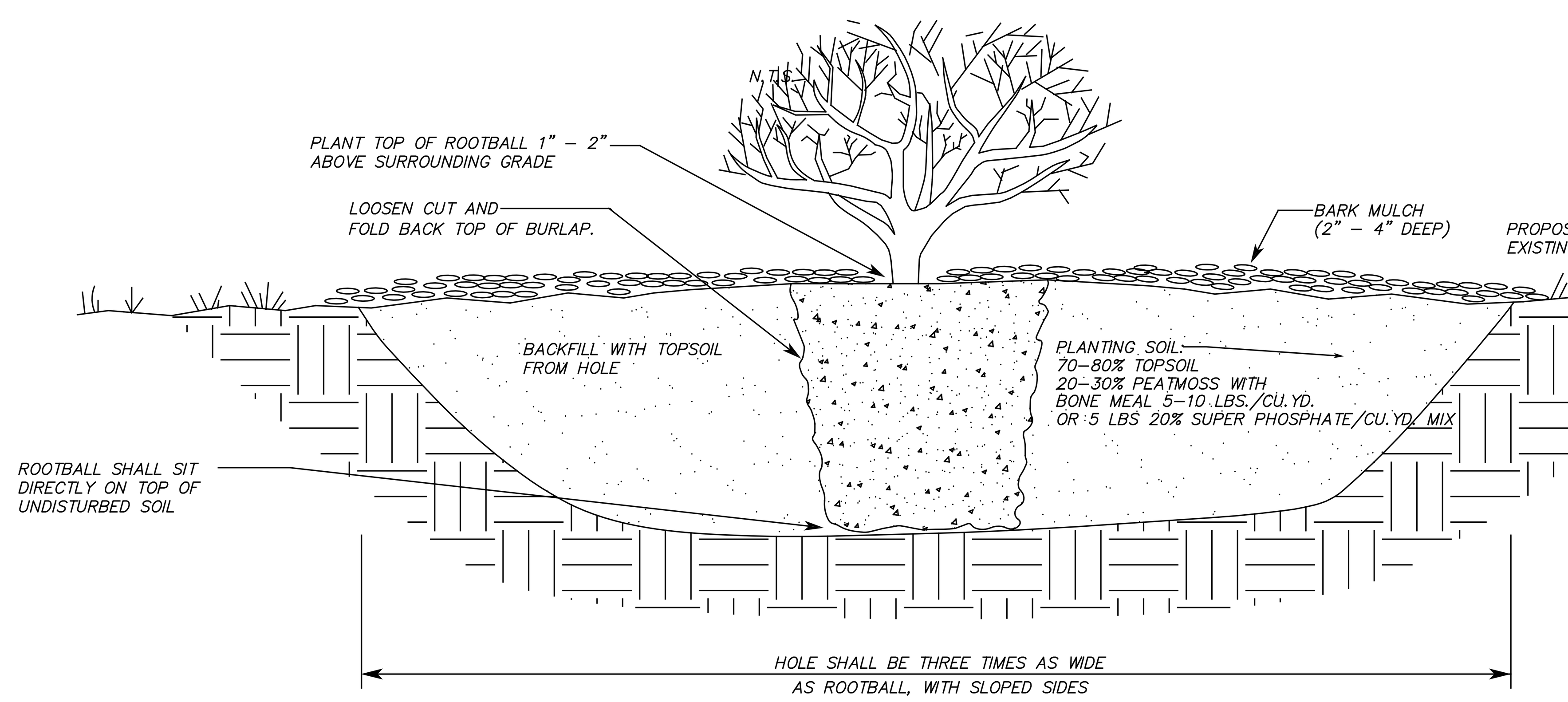

SHRUB PLANTING TYPICAL

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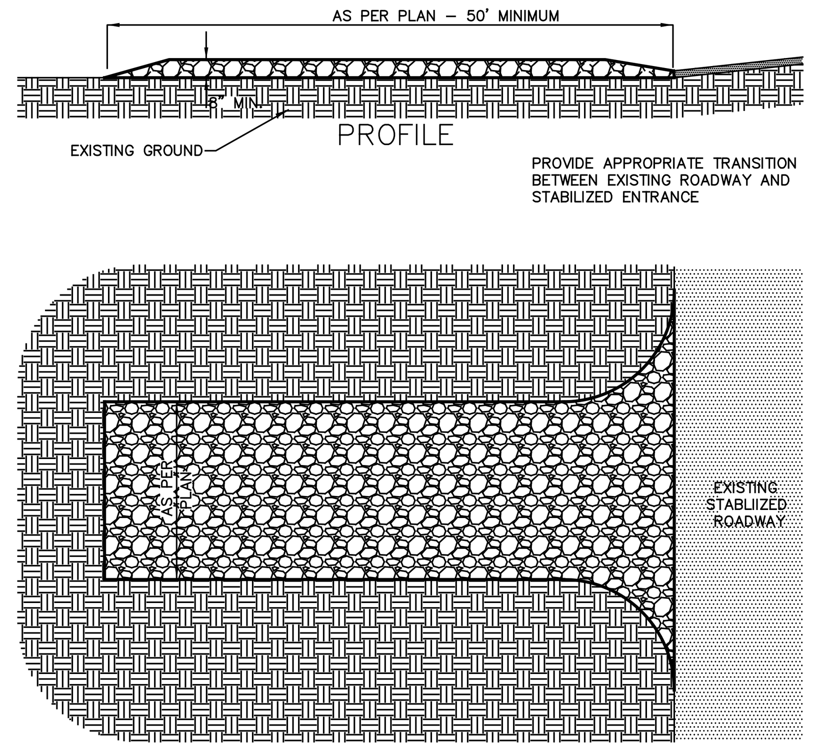
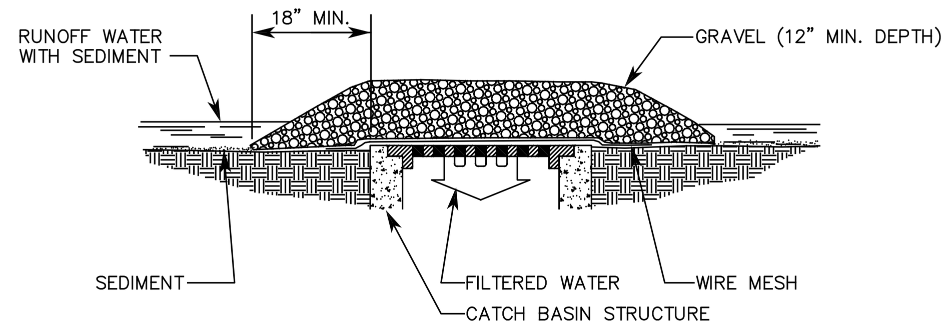


NOTES:

1. STONE SHALL BE 1.5 TO 4 INCHES WITH A MINIMUM THICKNESS OF 8 INCHES.
2. LENGTH, WIDTH AND RETURN RADIUSES SHALL BE AS SHOWN ON THE APPLICABLE CONSRUCTION STABILIZATION PLAN.
3. MAINTAINANCE OF ENTRANCE WILL BE NECESSARY TO PREVENT TRACKING OF SEDIMENT OFF SITE. THIS MAY INCLUDE ADDING STONE, AND/OR REMOVING AND REPLACING STONE.
4. THE EMPLOYMENT OF APPROVED ALTERNATIVE METHODS OF REMOVING SEDIMENT FROM VEHICLE PRIOR TO EXITING SITE IS ENCOURAGED TO MINIMIZED REQUIRED MAINTAINANCE OF STABILIZED ENTRANCE.
5. CONSTRUCT STABILIZED APRON AROUND BUILDING AS SHOWN ON THE PLAN, AND WITH THE PROFILE SHOWN ABOVE.

STABILIZED CONTRUCTION ENTRANCE

NOT TO SCALE



1. A WIRE MESH SHALL BE PLACED OVER THE DROP INLET OR CURB OPENING SO THAT THE ENTIRE OPENING AND A MINIMUM OF 12 INCHES AROUND THE OPENING ARE COVERED BY THE MESH. THE MESH MAY BE ORDINARY HARDWARE CLOTH OR WIRE MESH WITH OPENINGS UP TO 1/4 INCH.
2. THE WIRE MESH SHALL BE COVERED WITH CLEAN COARSE AGGREGATE SUCH AS CRUSHED STONE FOR A MINIMUM DEPTH OF 12 INCHES. CRUSHED STONE SHALL BE BEDDING STONE FOR SEWERS (ASTM STONE SIZE NO. 67). SEE SPECIFICATIONS.
3. THE COARSE AGGREGATE SHALL EXTEND AT LEAST 18 INCHES BEYOND ALL SIDES OF THE CATCH BASIN/DRAIN OPENING.
4. THIS SEDIMENTATION CONTROL SHALL BE UTILIZED AT ALL CATCH BASINS THAT WILL RECEIVE RUNOFF FROM DISTURBED AREAS.
5. *GEOTEXTILE BAG PRODUCTS DESIGNED FOR EROSION CONTROL AT CATCHBASINS ARE ACCEPTABLE ALTERNATIVES PROVIDED THEY ARE INSTALLED AND MAINTAINED PER MANUFACTURERS RECOMMENDATIONS.*
6. *SILT FENCING PROPERLY INSTALLED AND MAINTAIN AROUND CATCH BASINS IN GRASS AREAS IS AN ACCEPTABLE ALTERNATIVE.*

SEDIMENTATION CONTROL AT CATCH BASIN

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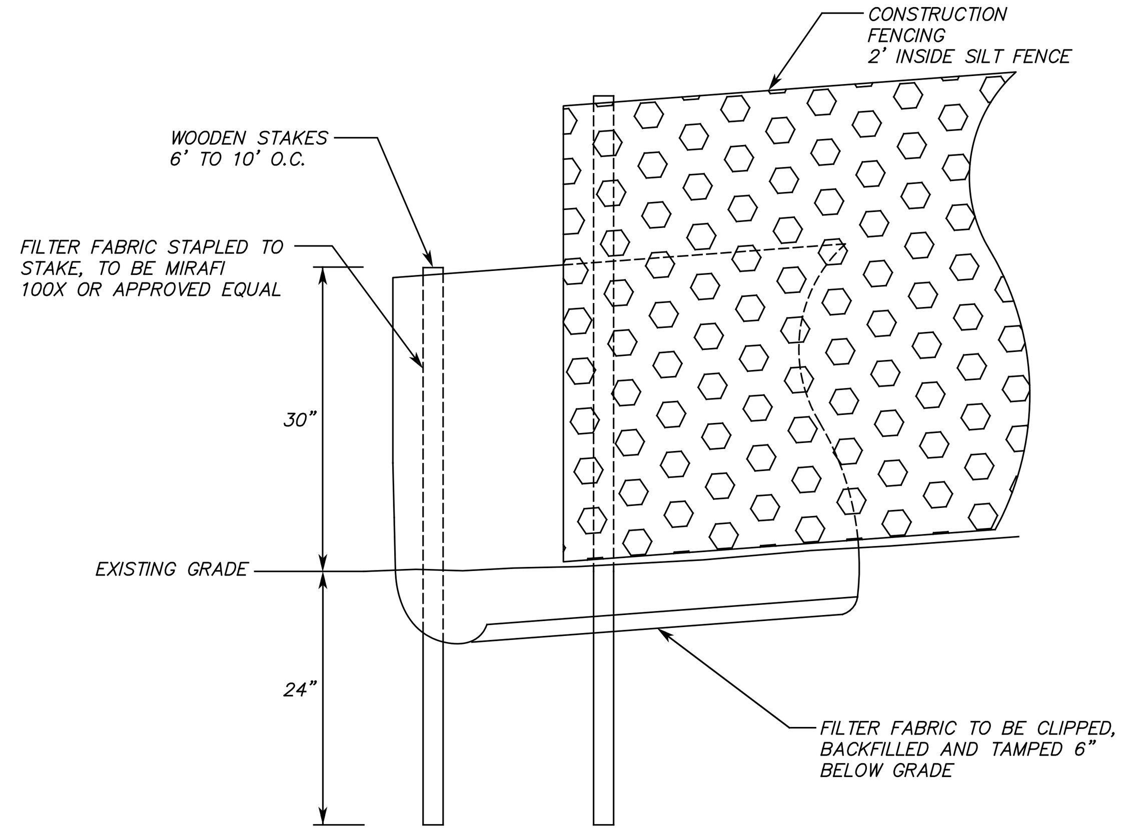
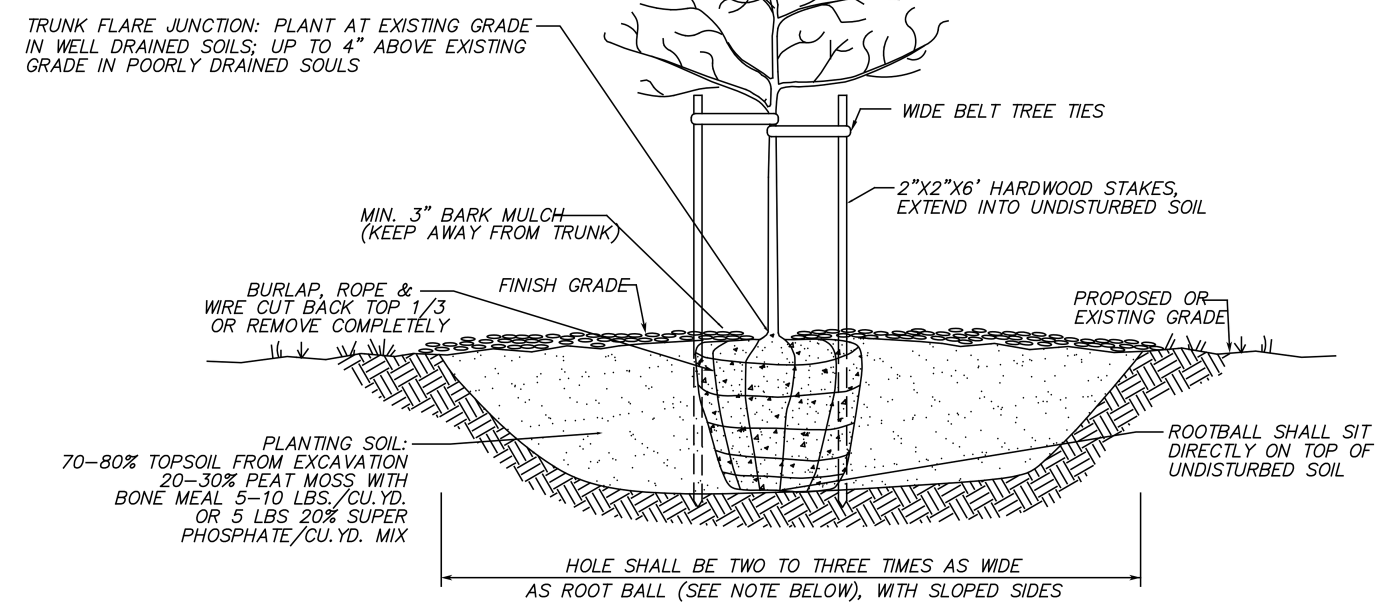


NOTES:
INSTALL SILT FENCES AT TOES OF UNPROTECTED SLOPES AND AS PARALLEL TO CONTOURS AS POSSIBLE. CURVE THE ENDS OF THE FENCE UP INTO THE SLOPE. REMOVE SEDIMENT WHEN ACCUMULATED TO HALF THE HEIGHT OF THE FENCE. CONTRACTOR SHALL INSTALL SILT FENCES AT THE TOE OF ALL FILLED OR UNPROTECTED SLOPES CREATED DURING CONSTRUCTION. NOT NECESSARILY REFLECTED ON FINAL PLANS. SILT FENCES ARE TO BE MAINTAINED UNTIL SLOPES ARE STABILIZED, AND REMAIN THE PROPERTY OF THE CONTRACTOR.

SILT/CONSTRUCTION FENCE EROSION CONTROL TYPICAL

N.T.S.



DECIDUOUS TREE PLANTING DETAIL

N.T.S.

NOTES:
1. PLANTING HOLE SHALL BE 3 TIMES ROOT BALL DIAMETER IN HIGHLY COMPACTED SOIL; 2 TIMES ROOT BALL DIAMETER MINIMUM IN ALL OTHERS.
2. STAKES AND GUY WIRE PLACEMENT SHALL NOT INTERFERE WITH PEDESTRIAN TRAFFIC.

Landscaping Notes:
1. Landscape architect shall be notified to inspect proposed locations of plant material and condition of plant materials when delivered to site prior to installation.
2. All plant material is to conform to the requirements of ANSI Z60.1 "American Standard for Nursery Stock" for quality, size, genus, species and variety shown on the planting plan.
3. Landscape contractor shall be responsible for identifying locations of underground utilities prior to excavation for planting.

EROSION PREVENTION AND SEDIMENT CONTROL STABILIZATION NOTES:

1. MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS AT 2 TONS PER ACRE. MULCH SHALL CONSIST OF AIR–DRIED HAY OR STRAW FREE OF SEEDS AND COARSE MATERIALS.
2. TOPSOIL PILES SHALL BE MULCHED AND RINGED WITH SILT FENCE.
3. DISTURBED SOILS TO BE STABLED AS FOLLOWS:

CHANNEL SLOPE	LINING
1% TO 5%	NORTH AMERICAN GREEN S150
> 5%	STONE RIP RAP

SIDE SLOPES	LINING
<3:1	MULCH
>=3:1	NORTH AMERICAN GREEN S150 OR EQUAL.
>2:1	NORTH AMERICAN GREEN SC250 OR EQUAL

4. LIME MAY BE APPLIED TO ACHIEVE SOIL PH OF 6.5 FOR AREAS TO BE SEEDED.
5. APPLY COMMERCIAL FERTILIZER AT 1.0 LBS/1,000SQ. FT OF N20, P5 AND K20, IF REQUIRED.
6. LIME AND FERTILIZER SHALL BE MIXED THOROUGHLY INTO THE SEEDBED DURING SOIL PREPARATION.
7. GRASSED CHANNELS SHALL HAVE A MIN. OF 4" OF TOPSOIL PRIOR TO SEEDING.
8. DISTURBED SOILS SHALL BE SEEDED ACCORDING TO THE FOLLOWING TABLE:

SEEDING RATES FOR TEMPORARY STABILIZATION:			
APRIL 15 - SEPT. 15: RYEGRASS (ANNUAL OR PERENNIAL: 20 LBS/ACRE)			
SEPT. 15 - APRIL 15: WINTER RYE (120 LBS/ACRE)			
SEEDING RATES FOR FINAL STABILIZATION:			
CHOOSE FROM:	VARIETY	LBS./ACRE	LBS./1000 SQ. FT.
BIRDSFOOT TREFOIL	EMPIRE/PARDEE	5*	0.1
OR			
COMMON WHITE CLOVER	COMMON	8	0.2
PLUS			
TALL FESCUE	KY-31/REBEL	10	0.25
PLUS			
REDTOP	COMMON	2	0.05
OR			
RYEGRASS (PERENNIAL)	PENNFINE/LINN	5	0.1

* - MIX 2.5 LBS. EACH OF EMPIRE AND PARDEE OR 2.5 LBS. OR BIRDSFOOT AND 2.5 LBS. WHITE CLOVER PER ACRE.

LIMIT–OF–DISTURBANCE CORDON CONSTRUCTION SPECIFICATIONS

1. LIMIT OF DISTURBANCE CORDON SHALL BE 3–FOOT HIGH ORANGE "CONSTRUCTION" SAFETY FENCE OR APPROVED EQUIVALENT, AND SHALL BE LOCATED AS SHOWN ON THE APPLICABLE PHASE PLAN. INSTALLATION OF PERMANENT SECURITY FENCING IS ALSO ACCEPTABLE.
2. SAID FENCE SHALL BE SUPPORTED BY STEEL 'U' OR 'T' TYPE POSTS PLACED AT MAXIMUM 16–FOOT INTERVALS.
3. FENCE SHALL BE WIRE OR "ZIP" TIED TO THE SUPPORT POSTS.
4. THE FENCE SHALL BE MAINTAINED IN A WORKMAN LIKE MANNER, AND SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION IS ACHIEVED.

EROSION PREVENTION AND SEDIMENT CONTROL CONSTRUCTION NOTES:

1. NEW LOT OWNERS/CONTRACTORS MUST COMPLY WITH THE EROSION PREVENTION AND SEDIMENT CONTROL STANDARDS OF THE CITY OF BURLINGTON.
2. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED.
3. ALL AREAS MUST HAVE TEMPORARY OR PERMANENT STABILIZATION WITHIN 14 DAYS OF INITIAL DISTURBANCE. AFTER THIS TIME ANY DISTURBANCE IN THE AREAS MNUST BE STABILIZED AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY:
   - STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST WITHIN THE NEXT 24 HOURS.
   - STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF–CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G. HOUSE FOUNDATION EXCAVATION, UTILITY TRENCHES)
4. ALL EROSION CONTROL MEASURES MUS BE INSPECTED AT A FREQUENCY OF EVERY 7 DAYS OR WITHIN 24 HOURS OF A PRECIPITATION EVENT CAUSING RUNOFF TO LEAVE CONSTRUCTION SITE, AND REPLACED OR REPAIRED AS NECESSARIES.

EROSION CONTROL SEQUENCING

1. DELINEATE THE AREA TO BE DISTURBED WITH LIMIT OF DISTURBANCE CORDON, SILT FENCE OR CONSTRUCTION FENCING AS APPROPRIATE.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
3. INSTALL TEMPORARY AND PERMANENT EROSION CONTROL FEATURES AS APPROPRIATE AND AS DESCRIBED IN THESE DETAILS.

WINTER CONSTRUCTION EROSION CONTROL MEASURES

ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED DURING THE WINTER CONSTRUCTION SEASON IF EARTH DISTURBANCE IS PLANNED DURING THIS TIME (OCTOBER 15TH TO APRIL 15TH). CONTRACTOR/LANDOWNER SHALL READ AND UNDERSTAND THE FOLLOWING ITEMS:

1. NON–VEGETATIVE PROTECTION MUST BE INSTALLED AFTER SEPTEMBER 15TH TO BARE SOILS INCLUDING EROSION CONTROL BLANKETS AND/OR HEAVY MULCH LAYER.
2. APPLY A MINIMUM OF 3 INCHES OF MULCH WITH AN 80–90% GROUND COVER. MULCH SHALL BE TRACKED OR STABILIZED WITH NETTING IN OPEN AREAS VULNERABLE TO WIND.
3. PROVIDE ENLARGED ACCESS POINTS TO THE SITE, STABLED TO PROVIDE FOR SNOW STOCKPILING.
4. LIMITS OF DISTURBANCE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
5. CLEARED SNOW SHALL BE STOCKPILED DOWNSLOPE OF ALL AREAS OF DISTURBANCE AND OUT OF STORMWATER TREATMENT STRUCTURES.
6. A MINIMUM 25 FOOT BUFFER SHALL BE MAINTAINED ON PERIMETER CONTROLS SUCH AS SILT FENCE.
7. IN AREAS OF DISTURBANCE THAT DRAIN TO A WATERBODY WITHIN 100 FEET, TWO ROWS OF SILT FENCE MUST BE INSTALLED ALONG THE CONTOUR.
8. DRAINAGE STRUCTURES MUST BE KEPT FREE AND CLEAR OF SNOW AND ICE DAMS.
9. SILT FENCE AND OTHER PRACTICES MUST BE INSTALLED AHEAD OF FROZEN GROUND.
10. DISTURBED SOILS MUST BE STABILIZED AT THE END OF EACH WORK DAY, UNLESS NO PRECIPITATION IS FORECAST WITHIN 24 HOURS AND WORK WILL RESUME WITHIN 24 HOURS IN THE SAME DISTURBED AREA. IN AREAS THAT COLLECT AND RETAIN RUNOFF SUCH AS HOUSE FOUNDATIONS AND UTILITY TRENCHES DAILY STABILIZATION IS NOT REQUIRED.
11. PRIOR TO STABILIZATION SNOW AND ICE SHALL BE REMOVED TO LESS THAN 1 INCH THICKNESS.
12. USE STONE TO STABILIZE AREAS SUCH AS THE PERIMETER OF BUILDINGS UNDER CONSTRUCTION OR WHERE CONSTRUCTION VEHICULAR TRAFFIC IS ANTICIPATED.

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Project No. 8163 Drawn By BEG Date 3/24/15 Scale N.T.S.

Floor(s)

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