

EROSION AND SEDIMENTATION CONTROL PLAN

REFERENCE IS MADE TO THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002), AS AMENDED, AND TO THE TOWN HIGHWAY ENGINEERING STANDARDS AND SPECIFICATIONS...

IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION AS WELL AS DISTURBANCE OF THE SOIL IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

DURING CONSTRUCTION, EXPOSE AS SMALL AN AREA OF SOIL AS POSSIBLE FOR AS SHORT A TIME AS POSSIBLE.

AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL AND STABILIZE SOIL BY SEEDING AND MULCHING SO AS TO PREVENT EROSION.

THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER AT THE BEGINNING AND END OF EACH STEP OF THE CONSTRUCTION PROCEDURE AND SHALL NOT PROCEED WITH THE NEXT STEP UNTIL THE TOWN ENGINEER HAS INSPECTED THE WORK.

THE STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION OF CONNECTICUT D.O.T. FORM 814 ARE THE OFFICIAL SPECIFICATIONS FOR CONSTRUCTION IN THE TOWN.

SPECIAL PROVISIONS REGARDING WETLANDS AND WATERCOURSES

GENERAL

WHENEVER CONSTRUCTION SHALL TAKE PLACE IN AREAS DESIGNATED AS WETLANDS, REGULATED AREAS OR AREAS TO BE ECOLOGICALLY PROTECTED, THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING REGULATIONS:

ANY PROCEDURES INVOLVING WATERCOURSES SHALL BE CONDUCTED IN SUCH A MANNER AS TO PREVENT INJURY TO PERSONS OR PUBLIC HEALTH, AND TO PREVENT FLOODING OF PUBLIC OR PRIVATE PROPERTY.

ALL EXISTING VEGETATION SHALL BE PROTECTED, AND ONLY THAT CLEARING AND CUTTING WHICH IS ABSOLUTELY NECESSARY FOR THE PROPOSED CONSTRUCTION OR TO CLEAR THE PERMANENT RIGHT-OF-WAY SHALL BE ALLOWED.

ALL REGULATED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR EXCEPT AS SHOWN ON THE APPROVED GRADING PLAN.

EXCESS EXCAVATED MATERIAL, INCLUDING THAT RESULTING FROM CLEARING AND GRUBBING, SHALL NOT BE DEPOSITED WITHIN THE REGULATED AREA EXCEPT AS SHOWN ON THE APPROVED GRADING PLAN.

SEDIMENTATION CONTROL

ALL REGULATED AREAS AND WATERCOURSES SHALL BE PROTECTED FROM SEDIMENTATION BOTH DURING AND AFTER CONSTRUCTION. THIS PROVISION APPLIES PARTICULARLY TO DEWATERING ACTIVITIES, STORAGE OF EXCAVATED OR STOCKPILED MATERIAL AND TRENCH OR DITCH CONSTRUCTION.

WORK WITH REGULATED AREAS

IF PORTIONS OF THIS PROJECT ARE TO BE CONSTRUCTED IN WETLANDS, REGULATED AREAS AND WOODED AREAS, THE INTENT OF THIS CONTRACT IS TO LIMIT DISTURBANCE OF THESE AREAS TO WHAT IS ABSOLUTELY NECESSARY FOR CONSTRUCTION AND TO RESTORE THE AREAS AS CLOSELY AS POSSIBLE TO THEIR ORIGINAL NATURAL STATE.

STRIPPING AND STOCKPILING

THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM OR ORGANIC MATERIAL PRIOR TO TRENCHING OPERATIONS AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION.

THE CONTRACTOR SHALL NOT INTRODUCE ANY QUANTITIES OF FILL MATERIALS INTO ANY AREAS DESIGNATED AS REGULATED AREAS EXCEPT AS SHOWN ON THE APPROVED GRADING PLANS.

THE CONTRACTOR SHALL MAINTAIN ALL BACKFILLED EXCAVATION IN PROPER CONDITION UNTIL EXPIRATION OF THE MAINTENANCE PERIOD. ALL DEPRESSIONS APPEARING IN THE BACKFILLED EXCAVATION SHALL BE PROPERLY FILLED AND RESEDED IF NECESSARY.

DISPOSAL OF TREES AND BRUSH

ALL SAPLING TREES AND BRUSH CUT ON THE JOB SHALL BE CHIPPED FOR DISPOSAL. WOOD CHIPS SHALL BE 1/8 INCH NOMINAL THICKNESS WITH NOT LESS THAN 50 PERCENT OF THE CHIPS HAVING AN AREA NOT LESS THAN ONE (1) SQUARE INCH, NOR MORE THAN SIX (6) SQUARE INCHES.

ALL OTHER CUT TREES AND STUMPS SHALL BE REMOVED FROM THE REGULATED AREAS.

TRENCH EXCAVATION AND BACK FILL

CARE SHALL BE TAKEN TO EXCAVATE TO THE CORRECT LINE AND GRADE AND WIDTH AT ALL POINTS. THE METHODS AND EQUIPMENT USED FOR EXCAVATION MUST BE ADAPTED TO THE CONDITIONS AT THE SITE AND THE DIMENSIONS OF THE REQUIRED TRENCH.

TRENCH EXCAVATION BELOW THE TWO FOOT DEPTH WHICH IS TO BE STRIPPED AND STORED SEPARATELY SHALL BE STOCKPILED AND SHALL BE USED AS THE TRENCH BACKFILL MATERIAL IN THE WETLANDS AREA, UNLESS THE ENGINEER DECLARES IT UNSUITABLE FOR BACKFILL MATERIAL.

MINIMIZING STREAM SILTATION

THE CROSSING OF STREAMS WITH UNDERGROUND UTILITIES WILL BE ACCOMPLISHED BY INSTALLING A LARGE DIVERSION PIPE IN THE EXISTING CHANNEL AND THEN TUNNELING UNDER THE BED.

SMALL WATERCOURSES THAT CAN BE TEMPORARILY DAMMED UP SHALL BE RESTRICTED WITH BALED HAY, STONES AND/OR TIMBERS TO PREVENT SILTING.

WATER PUMPED FROM POORLY DRAINED AREAS AND THE TRENCH EXCAVATION SHALL BE FREE FROM SILT AND SHALL BE DISCHARGED SO AS TO MINIMIZE TURBULENCE IN ADJACENT WATERCOURSES.

RESTORATION

THE FINAL RESTORATION AND RESEEDING SHALL BE DONE IN ACCORDANCE WITH OTHER SPECIFICATIONS IN THIS CONTRACT.

EROSION AND SEDIMENTATION CONTROL MEASURES

F. SYNTHETIC FILTER BARRIER FENCE AS SPECIFIED IS TO BE INSTALLED AT ALL LOCATIONS AS INDICATED ON THE PLANS TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE DRAINAGE SYSTEM, WETLANDS OR WATERCOURSES.

RR, RIP-RAP AS SPECIFIED IS TO BE INSTALLED AT THESE POINTS AS ENERGY DISSIPATION STRUCTURES. THE RIP-RAP IS TO BE INSTALLED BEFORE THE OUTLET STRUCTURES ARE ACTIVATED AND ALL ADJACENT AREAS ARE TO BE IMMEDIATELY SEEDED IF IN SEASON, OR THE SOIL IS TO BE STABILIZED BY OTHER METHODS.

ESTABLISHING VEGETATION COVER ON DISTURBED AREAS

- 1. SCARIFY SURFACE OF ALL AREAS TO BE TOPSIDE AND PLACE A MINIMUM OF 4" OF TOPSOIL ON ALL AREAS TO BE SEEDED.
2. APPLY LIME AT A RATE OF TWO TONS OF GROUND LIME PER ACRE.
3. FERTILIZE
a) FOR SPRING SEEDING, APPLY 10-10-10 FERTILIZER AT A RATE OF 300 LBS. PER ACRE...
b) FOR FALL SEEDING, APPLY 10-10-10 FERTILIZER AT A RATE OF 600 LBS. PER ACRE...
4. SMOOTH AND FIRM SEEDBED, APPLY SEED UNIFORMLY AT THE RATE SPECIFIED FOR THE SEED TYPE AND COVER SEED WITH NOT MORE THAN 1/4" OF SOIL.
5. MULCH IMMEDIATELY WITH HAY FREE FROM WEAK SEEDS, AT A RATE OF 3 BALES PER 1000 SQ. FT.

6. PERMANENT SEEDINGS, WHERE AN AREA WILL BE EXPOSED FOR MORE THAN ONE YEAR, OR WHERE FINAL GRADING IS COMPLETE.

THIS SEED MIX IS SPECIFICALLY FOR ALL DISTURBED AREAS NOT SPECIFIED ON SHEETS 12 & 13.

Table with 4 columns: AREA WHERE SEED MIX APPLIES, SEEDING MIXTURE BY WEIGHT, RATE PER 1000 SQ. FT., SEEDING DATES. Rows include All Lawn Areas, Road Cuts & Fills, Very Steep Slopes, and No Maintenance Areas.

IF TREES ARE TO BE RETAINED, THE SEED MIX SHOULD BE ADAPTED FOR SHADY CONDITIONS.

7. TEMPORARY SEEDING: TO PROTECT THE SOIL OVER THE WINTER.

Table with 4 columns: SPECIES, RATE/1000 SQ. FT., OPTIMUM SEEDING DATE, OPTIMUM SEED DEPTH. Rows include Annual Ryegrass, Perennial Ryegrass, Winter Rye, Oats, Wheat, Millet, Sudangrass, Buckwheat, and Weeping Lovegrass.

- 1. MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR CAN BE IRRIGATED.
2. SEED AT TWICE THE INDICATED DEPTH FOR SANDY SOIL.
3. THE FALL SEEDING DATES MAY BE EXTENDED 15 DAYS IN THE COASTAL TOWNS OF NEW LONDON, MIDDLESEX, NEW HAVEN AND FAIRFIELD COUNTIES.

SOURCE: U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, STORRS, CONN.

ORGANIC MULCH MATERIALS AND APPLICATION RATES

Table with 4 columns: MULCHES, RATES PER ACRE, RATES PER 1000 SQ.FT., NOTES. Rows include Straw or Hay, Wood Fiber, and Corn Stalks.

- 2. SEED AT TWICE THE INDICATED DEPTH FOR SANDY SOIL.

INSTALLATION REQUIREMENTS FOR ORGANIC MULCHES

ORGANIC MULCHES MAY BE USED IN ANY AREA WHERE MULCH IS REQUIRED, SUBJECT TO THE RESTRICTIONS NOTED IN FIGURE 7-1.

1. MATERIALS

SELECT MULCH MATERIAL BASED ON SITE CONDITIONS, AVAILABILITY OF MATERIALS, AND LABOR AND EQUIPMENT. FIGURE 7-1 LISTS THE MOST COMMONLY USED ORGANIC MULCHES.

2. PRIOR TO MULCHING

COMPLETE THE REQUIRED GRADING AND INSTALL NEEDED SEDIMENT CONTROL MEASURES.

3. APPLICATION

MULCH MATERIALS SHALL BE SPREAD UNIFORMLY, BY HAND OR MACHINE. APPROXIMATELY 1000 SQUARE FOOT SECTIONS AND PLACE 70-90 LBS (1-1/2 TO 2 BALES) OF STRAW OR WHEN SPREADING STRAW OR HAY MULCH BY HAND, DIVIDE THE AREA TO BE MULCHED INTO HAY IN EACH SECTION TO INSURE UNIFORM DISTRIBUTION.

4. ORGANIC MULCH ANCHORING

STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING. OTHER ORGANIC MULCHES DO NOT REQUIRE ANCHORING.

A. MULCH ANCHORING TOOL. THIS IS A TRACTOR-DRAWN IMPLEMENT DESIGNED TO PUNCH MULCH INTO THE SOIL SURFACE. THIS METHOD PROVIDES MAXIMUM EROSION CONTROL WITH STRAW. IT IS LIMITED TO USE ON SLOPES NO STEEPER THAN 3 TO 1 (3 HORIZONTALLY TO 1 VERTICALLY), WHERE EQUIPMENT CAN OPERATE SAFELY.

B. TRACKING

APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO CONTOUR.

C. MULCH NETTINGS

INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE

ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. NETTING SHOULD BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE.

GENERAL NOTES

A. IN AREAS WHERE CONSTRUCTION IS NOT ACTIVE, ALL DISTURBED SOILS ARE TO BE STABILIZED BY TEMPORARY OR PERMANENT SEEDING OF THE AREAS DISTURBED BY THE NEW CONSTRUCTION ACTIVITIES BETWEEN MAY 1ST AND JUNE 15TH OR BETWEEN AUGUST 15TH AND OCTOBER 15TH OF EACH YEAR.

B. ALL DISTURBED SOIL AREAS OUTSIDE OF THE PROPOSED IMPROVEMENTS ARE TO BE PERMANENTLY STABILIZED AS SOON AS POSSIBLE AS PART OF THIS PROJECT.

C. CONTRACTOR SHALL PRACTICE EFFECTIVE SOIL EROSION AND SEDIMENT CONTROL, INCLUDING DUST CONTROL PER THE CT EROSION CONTROL MANUAL DURING CONSTRUCTION AND UNTIL ALL AREAS ARE STABILIZED OR SURFACE TREATED.

D. OBTAIN ALL NECESSARY TOWN PERMITS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.

E. ALL CONSTRUCTION SHALL CONFORM TO THE MATERIALS, CONSTRUCTION METHODS AND TESTING REQUIREMENTS OF THE CONDOT FORM 816, AND TOWN OF CHESTER STANDARD DETAILS, UNLESS OTHERWISE SPECIFIED ON THESE PLANS.

F. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF GREATER THAN 1 INCH RAINFALL.

G. ACCUMULATED SEDIMENT SHALL BE REMOVED AS REQUIRED TO KEEP SILT FENCE FUNCTIONAL. IN ALL CASES, DEPOSITS SHALL BE REMOVED WHEN THE ACCUMULATED SEDIMENT HAS REACHED ONE-HALF ABOVE THE GROUND HEIGHT OF THE SILT FENCE.

BUILDING & SITE CONSTRUCTION SEQUENCE

1. MORE THAN ONE CONSTRUCTION ACTIVITY IS ALLOWED TO OCCUR AT ONE TIME, AS LONG AS THE GENERAL SEQUENCING IS FOLLOWED, HOWEVER, STEPS 2 THROUGH 12 MUST BE FOLLOWED WITHOUT DEVIATION.

2. THE GENERAL CONTRACTOR SHALL CONTACT THE TOWN BUILDING DEPARTMENT (860-526-0013 EXT 207) AND TOWN CONSULTING ENGINEER (860-526-9591) TO SCHEDULE AND ATTEND A PRE-CONSTRUCTION MEETING TO EXCHANGE CONTACT INFORMATION AND OBTAIN INSPECTION SCHEDULES AND OTHER REQUIREMENTS.

3. THE EXISTING ACCESS DRIVEWAY TO THE SITE SHALL BE USED AS CONSTRUCTION ACCESSSES.

4. INSTALL SILT SACKS IN CATCH BASINS AS SHOWN AND INSTALL ALL SILT FENCE AND EROSION CONTROLS.

5. REMOVE ALL PAVED AREAS AS SHOWN AND MILL PAVEMENT AND CURBS AND USE MATERIAL AS AN ADDITIONAL BASE MATERIAL UNDER PROPOSED PAVEMENT.

6. REMOVE EXISTING CATCH BASIN TOPS AND DISPOSE OF PROPERLY. REPLACE EXISTING CATCH BASIN TOPS WITH NEW TYPE 'C' TOWN APPROVED CATCH BASIN TOPS.

7. INSTALL PAVEMENT BASE.

8. FINE GRADE AND COMPACT AREAS TO BE PAVED AND INSTALL FIRST COURSE OF PAVEMENT.

9. INSTALL NEW 8' X 18' CONCRETE DUMPSTER PAD.

10. INSTALL CAPE COO STYLE CURBING.

11. BOX OUT AND INSTALL NEW BITUMINOUS SIDEWALKS.

12. INSTALL TACK COAT AND SECOND COURSE OF PAVEMENT.

13. INSTALL NEW EVERGREEN LANDSCAPE TREES AROUND NEW CONCRETE DUMPSTER PAD.

14. FINE GRADE AND SPREAD TOPSOIL ON ALL AREAS DISTURBED FROM THE CONSTRUCTION ACTIVITIES, FERTILIZE AND SEED.

15. INSTALL ANY NEW SIGNAGE.

16. PAINT ALL PAVEMENT MARKINGS.

17. REMOVE SILT FROM SILT SACKS AND OTHER EROSION CONTROLS.

18. REMOVE ALL EROSION CONTROL MEASURES FROM STABILIZED AREAS.

19. NOTIFY TOWN BUILDING DEPARTMENT AND TOWN CONSULTING ENGINEER FOR A FINAL INSPECTION OF SITE PRIOR TO REQUEST FOR CERTIFICATE OF OCCUPANCY.

SOIL EROSION & SEDIMENTATION CONTROL NARRATIVE

1. DEVELOPMENT TYPE:

INSTALL NEW AND REFURBISH EXISTING BITUMINOUS DRIVES, PARKING AREAS AND SIDEWALKS.

2. SCHEDULE:

EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PER THE BUILDING & SITE CONSTRUCTION SEQUENCE ON THIS PLAN. ADDITIONAL SEDIMENTATION CONTROLS ARE TO BE INSTALLED BY THE CONTRACTOR AS REQUESTED BY THE TOWN WETLANDS AGENT AS ARE NECESSARY TO CONTROL EROSION AND PROTECT THE SITE AND ADJACENT PROPERTIES FROM SEDIMENTATION.

3. INSTALLATION REQUIREMENTS:

SEE EROSION CONTROL DETAILS ON THIS PLAN FOR APPROPRIATE CONSTRUCTION AND INSTALLATION REQUIREMENTS FOR EROSION CONTROLS.

4. MAINTENANCE REQUIREMENTS:

THE DEVELOPER SHALL MAINTAIN AND REPLACE ALL EROSION CONTROLS AS NECESSARY TO CONTROL EROSION AND PROTECT THE SITE AND ADJACENT PROPERTIES FROM SEDIMENTATION. CONTRACTOR SHALL HAVE PROVISIONS STORED ON SITE FOR EMERGENCY SOIL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING STOCKPILES OF HAY BALES, STAKES, CRUSHED STONE AND SILT FENCE, PROCEDURES AND CONSTRUCTION METHODS.

NOTIFICATION SCHEDULE

THE CONTRACTOR SHALL NOTIFY THE TOWN OF CHESTER BUILDING DEPARTMENT (860-526-0013 EXT 207) AT LEAST TWO WORKING DAYS BEFORE THE FOLLOWING...

- 1. INSTALLATION OF EROSION & SEDIMENTATION CONTROL MEASURES
2. START OF CONSTRUCTION
3. COMPLETION OF MILLING
4. COMPLETION OF INSTALLATION OF NEW CATCH BASIN TOPS.
5. COMPLETION OF FINAL GRADING PRIOR TO PAVING.
6. COMPLETION OF PAVING.
7. COMPLETION OF FINAL LANDSCAPING.
8. PRIOR TO THE REMOVAL OF CONSTRUCTION EROSION & SEDIMENTATION CONTROL MEASURES

EROSION AND SEDIMENTATION CONTROL CHECKLIST

PROJECT: SITE REPAVING PLAN
LOCATION: 218 MIDDLESEX AVENUE
PROJECT DESCRIPTION: REPAVE EXISTING BITUMINOUS DRIVES, PARKING AND SIDEWALKS.
PARCEL AREA: 5.000 ACRES

RESPONSIBLE PERSONNEL:

DOUGLAS WILLIAMS (860) 392-9622
CHESTER HOUSING ASSOCIATES LP
P.O. BOX 290743
WETHERSFIELD, CONNECTICUT 06129

EROSION AND SEDIMENT CONTROL PLAN PREPARER:

BARRESI ASSOCIATES LLC (860) 219-9260
570-D HAYDEN STATION ROAD
WINDSOR, CONNECTICUT 06095

CHECKLIST:

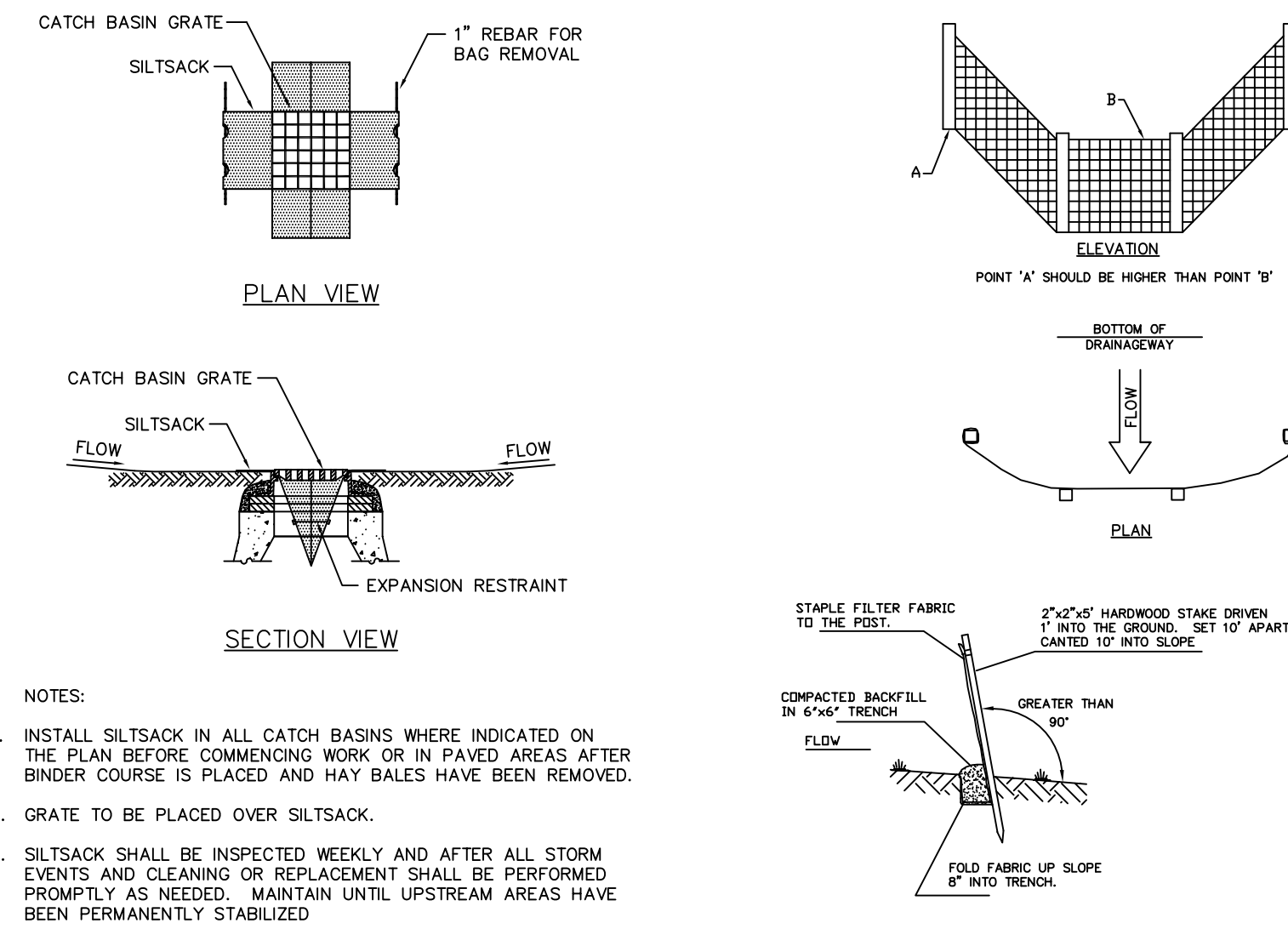
Table with 6 columns: Erosion & Sediment Control Measures, LOCATION, DATE INSTALLED, INITIALS, DATE REMOVED, INITIALS. Rows include Silt Fence, Silt Sacks, Topsoil, Mulch & Seed.

MAINTENANCE OF MEASURES:

Table with 4 columns: LOCATION, DESCRIPTION OR NUMBER, DATE, INITIALS. Rows include Toe of Slopes, Stockpiles, Catch Basins, All Disturbed Areas.

PROJECT DATES:

Table with 3 columns: DESCRIPTION, DATE, INITIALS. Rows include Date of Groundbreaking, Date of Final Stabilization.



(S) SILT SACK AT CATCH BASIN

(F) GEOTEXTILE SILT FENCE

CDBG SITE PLAN
PREPARED FOR
CHESTER HOUSING ASSOCIATES LP
218 MIDDLESEX AVENUE
CHESTER, CONNECTICUT

BARRESI ASSOCIATES LLC

570 HAYDEN STATION ROAD - UNIT D - WINDSOR, CT 06095
(860) 219-9260 www.barresilc.com

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

Table with 2 columns: DATE, REVISION. Includes a scale of 1 in = 40 ft and date MARCH 25, 2019.