



PUBLIC NOTICE

US Army Corps
of Engineers®
New England District

696 Virginia Road
Concord, MA 01742-2751

Date: March 30, 2010
Comment Period Ends: April 30, 2010
File Number: NAE-2009-1008
In Reply Refer To: Erika Mark
Or by e-mail: Erika.L.Mark@usace.army.mil

The District Engineer has received a permit application from the applicant below to **conduct work in waters of the United States** as described below.

APPLICANT Town of Westport

ACTIVITY This is a culvert replacement and stream channel improvement project. A detailed description and plans of the activity are attached.

WATERWAY AND LOCATION OF THE PROPOSED WORK

The project is located at the intersection of Willow Brook and Richmondville Avenue, in Westport, Connecticut. Willow Brook is a perennial water course and a tributary to the Saugatuck River. It has a contributing watershed area of less than 1 square mile. The proposed location on the USGS Westport-CT quadrangle sheet is at 41.152° Latitude and -73.363° Longitude.

AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
 Section 404 of the Clean Water Act
 Section 103 of the Marine Protection, Research and Sanctuaries Act).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment

CENAE-R
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and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

SECTION 106 COORDINATION

Based on his initial review, the District Engineer has determined that little likelihood exists for the proposed work to impinge upon properties with cultural or Native American significance, or listed in, or eligible for listing in, the National Register of Historic Places. Therefore, no further consideration of the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended, is necessary. This determination is based upon one or more of the following:

- a. The permit area has been extensively modified by previous work.
- b. The permit area has been recently created.
- c. The proposed activity is of limited nature and scope.
- d. Review of the latest published version of the National Register shows that no presence of registered properties listed as being eligible for inclusion therein are in the permit area or general vicinity.
- e. Coordination with the State Historic Preservation Officer and/or Tribal Historic Preservation Officer(s)

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Barbara Newman at (978) 318-8515, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

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For more information on the New England District Corps of Engineers programs, visit our website at <http://www.nae.usace.army.mil>.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.



Robert J. DeSista
Chief, Permits and Enforcement Branch
Regulatory Division

If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____

PROPOSED WORK AND PURPOSE

The purpose of the proposed work is to increase the local conveyance capacity of the Willow Brook channel and reduce flooding throughout the project area. The project involves replacement of twin 24-inch culverts with a single 3-foot high by 12 foot wide precast concrete box culvert, excavation of the channel upstream and downstream of the culvert to increase its hydraulic capacity, excavation of an unnamed pond south of the culvert that has partially filled in with sediment, and widening of the east side of the river bank south of the culvert. There will be approximately 347 square feet of direct impacts due to the discharge of fill below the ordinary high water mark (OHWM) of Willow Brook and its abutting wetlands. There are approximately 6421 square feet of secondary impacts due to excavation of the channel and pond; and approximately 180 square feet of temporary impacts, due to the use of construction pads, haybales and a forebay.

The following are tables summarizing the direct and secondary impacts to wetlands and waters of the U.S.:

Direct Impacts

Fill under the wood bridge	205 square feet
Left wingwall & headwall on downstream side of Richmondville Avenue	28 square feet
Bankslope treatments downstream of Richmondville Avenue	67 square feet
Placement of stone on left bank, downstream of Richmondville Avenue	9 square feet
Bank slope treatments upstream of Richmondville Avenue	10 square feet
Wingwalls and headwall on upstream side of Richmondville Avenue	28 square feet
Total Direct impacts	347 square feet

Secondary impacts

Excavated areas below the OHWM or in wetlands	Low-flow channel north of the culvert	126 square feet
	Low-flow channel north of the culvert & side bank excavation 60' south of the culvert	1,950 square feet
	Pond	4,340 square feet
Creation of a forebay for water collection in wetlands		5 square feet
Total Secondary impacts		6421 square feet

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Construction will take place during the dry season; however, a temporary low flow sediment forebay will be constructed upgradient to control incoming flows due to a storm event. Water will be pumped from the forebay and redirected downstream, when necessary. A series of silt fences and hay bales laid across the brook will be used as temporary filtration barriers to catch debris and sediment. Additional silt fencing will be installed along the toe of all critical cut and fill slopes, and around designated soil stockpile areas. The construction is slated to last 2-3 months. All excavated material will be disposed of off site.

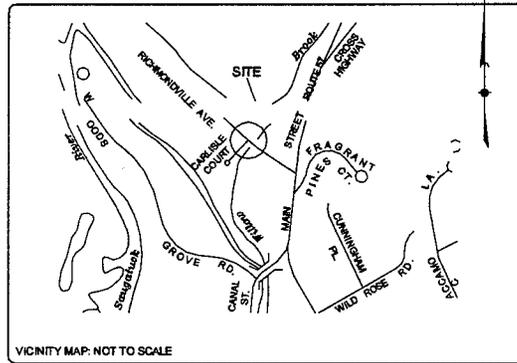
Alternatives: Alternatives examined were “no action”, installation of a 3’ x 15’ culvert and installation of five parallel 36-inch pipe culverts, no wing walls, and creating only a low flow channel through the downstream pond. The applicant states that these alternatives were unacceptable for the following reasons: A “no action” alternative would not resolve the potential flooding problems; the culvert size proposed was found to be adequate based on modelling; wing walls were thought necessary to protect against erosion potential at the slopes adjacent to the culvert; and creating only a single flow channel through the downstream pond would not address the continued aggradation and loss of the pond.

The work is described on the enclosed plans entitled “Proposed Culvert Replacement, Prepared For: Town of Westport, Connecticut, Project No. 06-02” on ten (10) sheets, dated “August 8, 2008, Revised through March 2010”.

MITIGATION – A plan to use non-invasive native vegetation to replace any disturbed riparian areas will be implemented following the completion of work. Best management practises will be followed to ensure preservation of physical and aquatic habitat. These include placement of native streambed material within the culvert inverts and use of native stone where possible for scour protection measures.

PROPOSED CULVERT REPLACEMENT
PREPARED FOR:
TOWN OF WESTPORT, CONNECTICUT
PROJECT NO. 06-02
WILLOW BROOK AT RICHMONDVILLE AVENUE
WESTPORT, CONNECTICUT

AUGUST 8, 2008
REVISED THROUGH: MARCH 2010



VICINITY MAP: NOT TO SCALE

SHEET 1 OF 9	SITE PLAN - EXISTING CONDITIONS
SHEET 2 OF 9	SITE PLAN - LAYOUT, GRADING and UTILITIES - WILLOW BROOK AT RICHMONDVILLE AVENUE
SHEET 3 OF 9	SITE PLAN - LAYOUT, GRADING and SEDIMENT & EROSION CONTROL - DRIVEWAY BRIDGE TO LEE'S CANAL
SHEET 4 OF 9	SITE PLAN - SEDIMENT & EROSION and WATER CONTROL - WILLOW BROOK AT RICHMONDVILLE AVENUE
SHEET 5 OF 9	PROFILE - PROPOSED CULVERT REPLACEMENT
SHEET 6 OF 9	CHANNEL CROSS SECTIONS
SHEET 7 OF 9	DETAILS
SHEET 8 OF 9	NOTES AND DETAILS
SHEET 9 OF 9	PLANTING PLAN



DEPARTMENT OF PUBLIC WORKS
Stephen J. Edwards, *Director of Public Works*
Peter Ratkewich, P.E., *Town Engineer*

SELECTMEN
Gordon F. Joseloff, *First Selectman*
Shelly A. Kassen, *Selectwoman*
Robert F. Lasprogato, *Selectman*

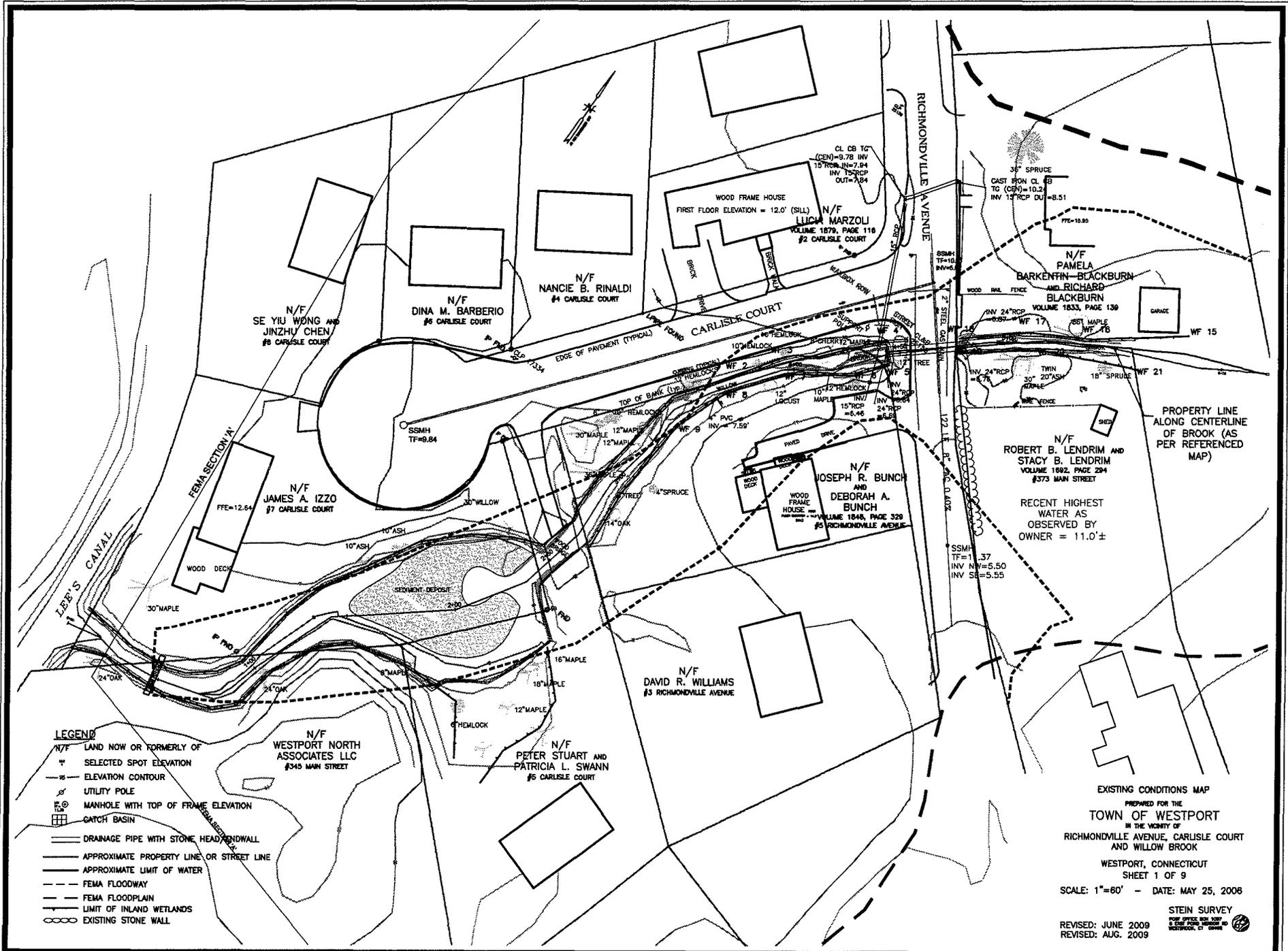
ENGINEERING DIVISION
110 Myrtle Avenue, Room 210
(203) 341-1160 (telephone)
(203) 454-5783 (facsimile)

HAMMONS LLC
Land Surveyors and Civil Engineers
102 KINGS HIGHWAY EAST
FAIRFIELD, CONNECTICUT 06825
203.334.5369

(TOWN OF WESTPORT VENDOR NO.149505)

AND
 **MILONE & MACBROOM**
*Engineering,
Landscape Architecture
and Environmental Science*

99 Realy Drive
Cheshire, Connecticut 06410
(203) 271-1773 Fax (203) 272-9733
www.miloneandmacbroom.com

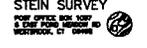


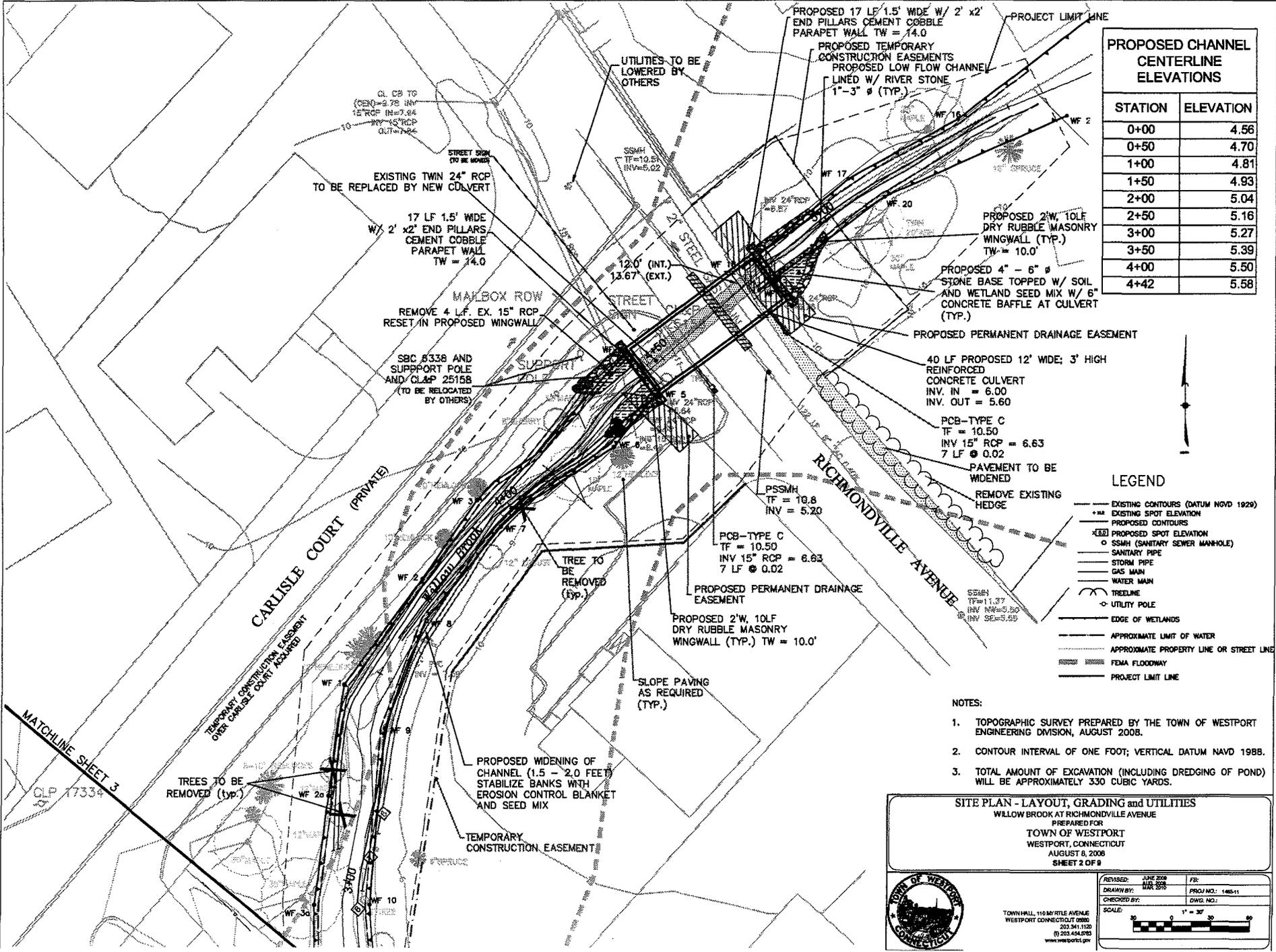
LEGEND

- N/F LAND NOW OR FORMERLY OF
- * SELECTED SPOT ELEVATION
- ELEVATION CONTOUR
- UTILITY POLE
- MANHOLE WITH TOP OF FRAME ELEVATION
- CATCH BASIN
- DRAINAGE PIPE WITH STONE HEAD/ENDWALL
- APPROXIMATE PROPERTY LINE OR STREET LINE
- APPROXIMATE LIMIT OF WATER
- FEMA FLOODWAY
- FEMA FLOODPLAIN
- LIMIT OF INLAND WETLANDS
- EXISTING STONE WALL

EXISTING CONDITIONS MAP
 PREPARED FOR THE
TOWN OF WESTPORT
 IN THE VICINITY OF
 RICHMONDVILLE AVENUE, CARLISLE COURT
 AND WILLOW BROOK
 WESTPORT, CONNECTICUT
 SHEET 1 OF 9
 SCALE: 1"=60' - DATE: MAY 25, 2006

REVISED: JUNE 2009
 REVISED: AUG. 2009





PROPOSED CHANNEL CENTERLINE ELEVATIONS	
STATION	ELEVATION
0+00	4.56
0+50	4.70
1+00	4.81
1+50	4.93
2+00	5.04
2+50	5.16
3+00	5.27
3+50	5.39
4+00	5.50
4+42	5.58

LEGEND

- EXISTING CONTOURS (DATUM NAVD 1929)
- EXISTING SPOT ELEVATION
- PROPOSED CONTOURS
- PROPOSED SPOT ELEVATION
- SSMH (SANITARY SEWER MANHOLE)
- SANITARY PIPE
- STORM PIPE
- GAS MAIN
- WATER MAIN
- TREE LINE
- UTILITY POLE
- EDGE OF WETLANDS
- APPROXIMATE LIMIT OF WATER
- APPROXIMATE PROPERTY LINE OR STREET LINE
- FEMA FLOODWAY
- PROJECT LIMIT LINE

- NOTES:**
- TOPOGRAPHIC SURVEY PREPARED BY THE TOWN OF WESTPORT ENGINEERING DIVISION, AUGUST 2008.
 - CONTOUR INTERVAL OF ONE FOOT; VERTICAL DATUM NAVD 1988.
 - TOTAL AMOUNT OF EXCAVATION (INCLUDING DREDGING OF POND) WILL BE APPROXIMATELY 330 CUBIC YARDS.

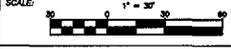
SITE PLAN - LAYOUT, GRADING AND UTILITIES
 WILLOW BROOK AT RICHMONDVILLE AVENUE
 PREPARED FOR
TOWN OF WESTPORT
 WESTPORT, CONNECTICUT
 AUGUST 8, 2008
 SHEET 2 OF 8

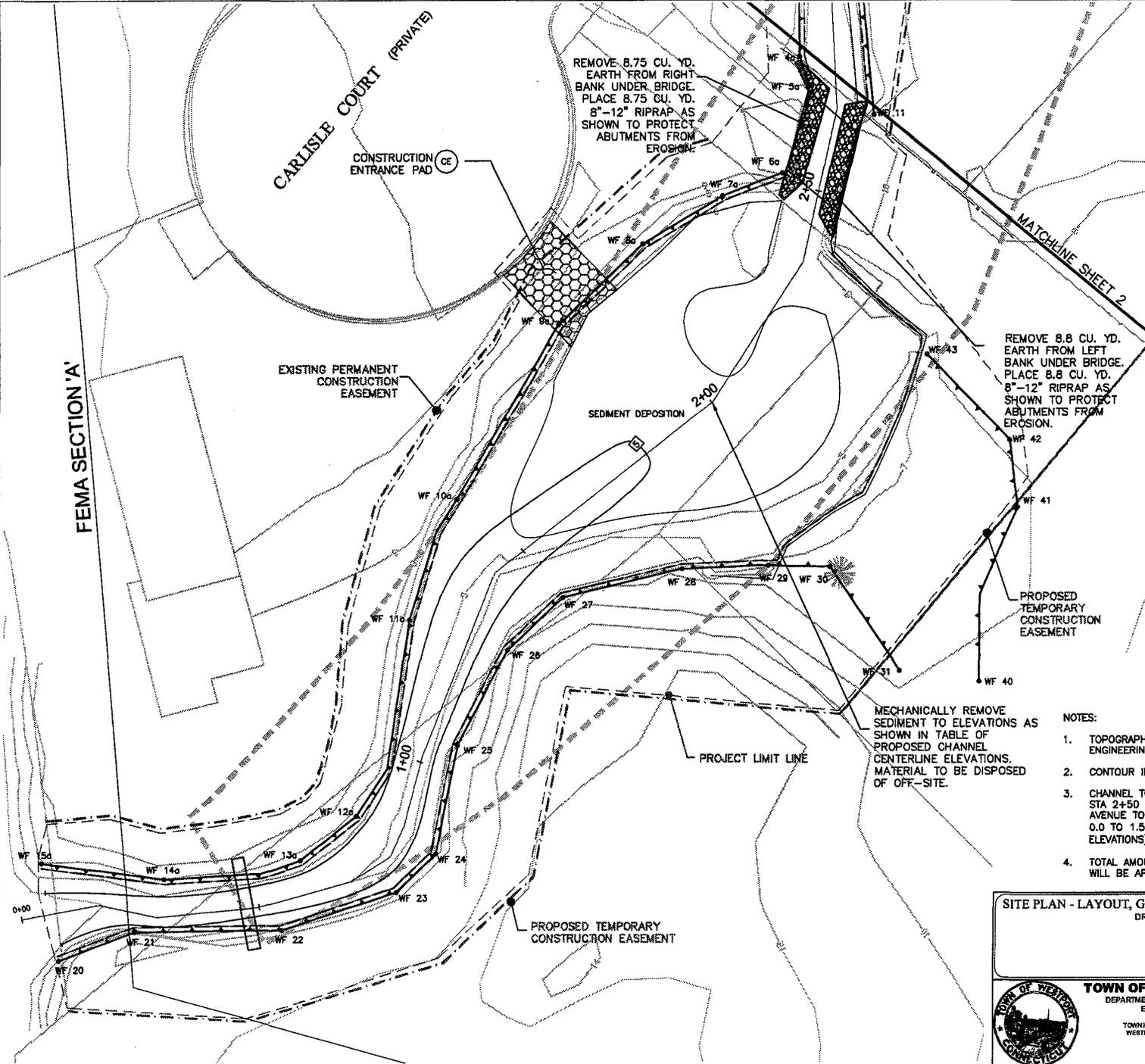


TOWN HALL, 110 MYRTLE AVENUE
 WESTPORT CONNECTICUT 06890
 (203) 341-1120
 (203) 454-2780
 www.westport.gov

REVISED: JUNE 2008	FR:
DRAWN BY: MAR 2010	PROJ. NO.: 1485-11
CHECKED BY:	DWG. NO.:

SCALE: 1" = 30'





- LEGEND**
- EXISTING CONTOURS (DATUM NGVD 1929)
 - - - EXISTING SPOT ELEVATION
 - PROPOSED CONTOURS
 - PROPOSED SPOT ELEVATION
 - SSMH (SANITARY SEWER MANHOLE)
 - SANITARY PIPE
 - STORM PIPE
 - GAS MAIN
 - WATER MAIN
 - TREELINE
 - UTILITY POLE
 - DEEP TEST HOLE
 - EDGE OF WETLANDS
 - HAY BALE BARRIER
 - APPROXIMATE LIMIT OF WATER
 - APPROXIMATE PROPERTY LINE OR STREET LINE
 - FEMA FLOODWAY
 - PROJECT LIMIT LINE

PROPOSED CHANNEL CENTERLINE ELEVATIONS

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4+00	5.50
4+42	5.58

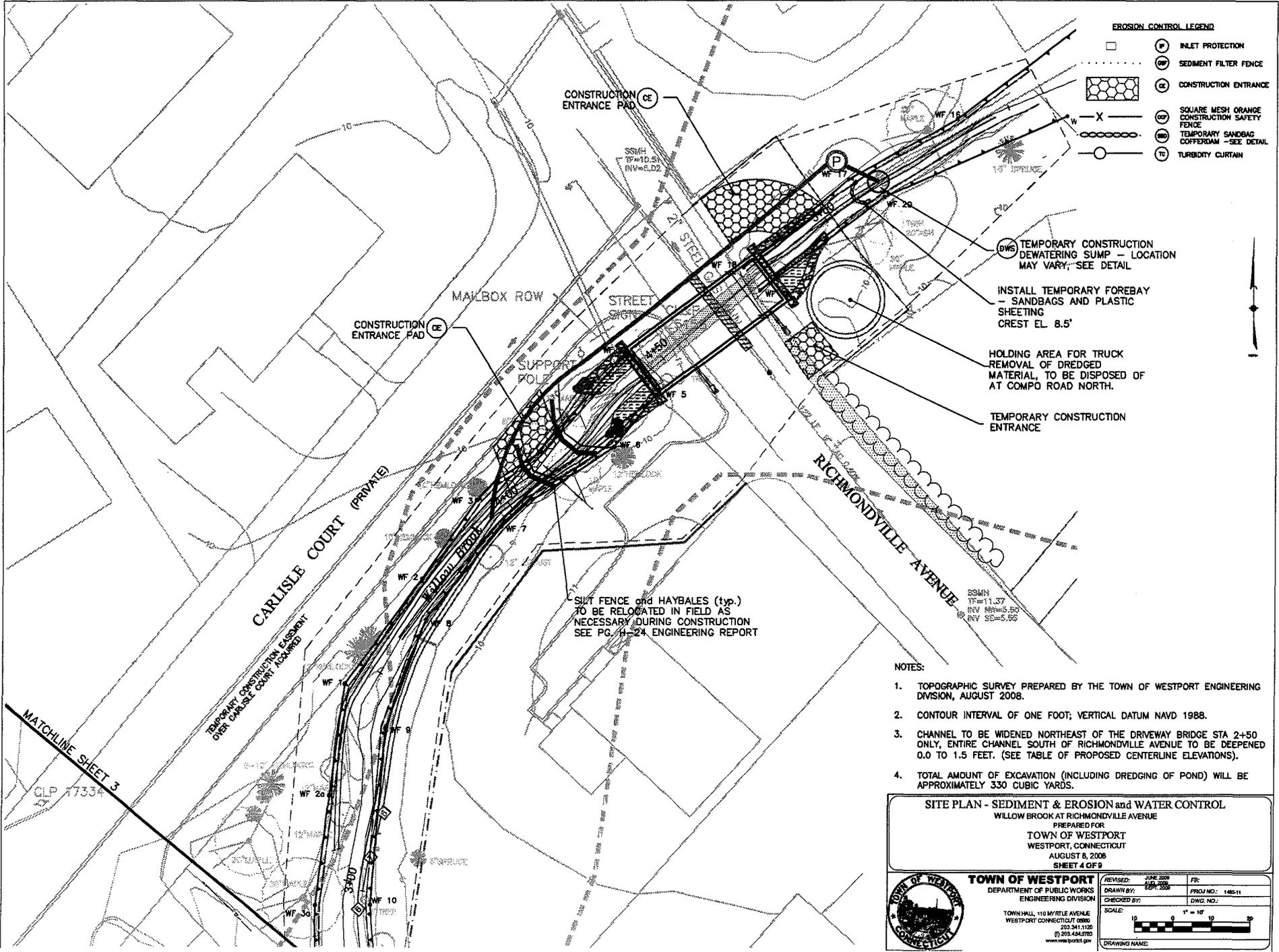
- NOTES:**
1. TOPOGRAPHIC SURVEY PREPARED BY THE TOWN OF WESTPORT ENGINEERING DIVISION, AUGUST 2008.
 2. CONTOUR INTERVAL OF ONE FOOT; VERTICAL DATUM NAVD 1988.
 3. CHANNEL TO BE WIDENED NORTHEAST OF THE DRIVEWAY BRIDGE STA 2+50 ONLY, ENTIRE CHANNEL SOUTH OF RICHMONDVILLE AVENUE TO BE DEEPEND 0.0 TO 1.5 FEET. (SEE TABLE OF PROPOSED CENTERLINE ELEVATIONS).
 4. TOTAL AMOUNT OF EXCAVATION (INCLUDING DREDGING OF POND) WILL BE APPROXIMATELY 330 CUBIC YARDS.

SITE PLAN - LAYOUT, GRADING and SEDIMENT & EROSION CONTROL
 DRIVEWAY BRIDGE TO LEE'S CANAL
 PREPARED FOR
TOWN OF WESTPORT
 WESTPORT, CONNECTICUT
 AUGUST 8, 2008
 SHEET 3 OF 9



TOWN OF WESTPORT
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 TOWN HALL, 110 MYRTLE AVENUE
 WESTPORT, CONNECTICUT 06890
 203.341.6100
 (F) 203.454.2785
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REVISED:	DATE: 08/08/08	BY:	
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SCALE:	1" = 30'		
DRAWING NAME:			



EROSION CONTROL LEGEND

	(P) INLET PROTECTION
	(WF) SEDIMENT FILTER FENCE
	(CE) CONSTRUCTION ENTRANCE
	(OOF) SQUARE MESH ORANGE CONSTRUCTION SAFETY FENCE
	(SB) TEMPORARY SANDBAG COFFERDAM - SEE DETAIL
	(TC) TURBIDITY CURTAIN

- (DWS)** TEMPORARY CONSTRUCTION DEWATERING SUMP - LOCATION MAY VARY, SEE DETAIL
- INSTALL TEMPORARY FOREBAY - SANDBAGS AND PLASTIC SHEETING CREST EL. 8.5'
- HOLDING AREA FOR TRUCK REMOVAL OF DREDGED MATERIAL, TO BE DISPOSED OF AT COMPO ROAD NORTH.
- TEMPORARY CONSTRUCTION ENTRANCE

NOTES:

1. TOPOGRAPHIC SURVEY PREPARED BY THE TOWN OF WESTPORT ENGINEERING DIVISION, AUGUST 2008.
2. CONTOUR INTERVAL OF ONE FOOT; VERTICAL DATUM NAVD 1988.
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SITE PLAN - SEDIMENT & EROSION and WATER CONTROL
 WILLOW BROOK AT RICHMONDVILLE AVENUE
 PREPARED FOR
TOWN OF WESTPORT
 WESTPORT, CONNECTICUT
 AUGUST 8, 2008
 SHEET 4 OF 9

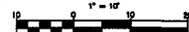


TOWN OF WESTPORT
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION

REVISED: JUNE 2009	FR:
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TOWN HALL, 110 MYRTLE AVENUE
 WESTPORT, CONNECTICUT 06880
 (T) 203-341-1100
 (F) 203-454-8785
www.westport.gov

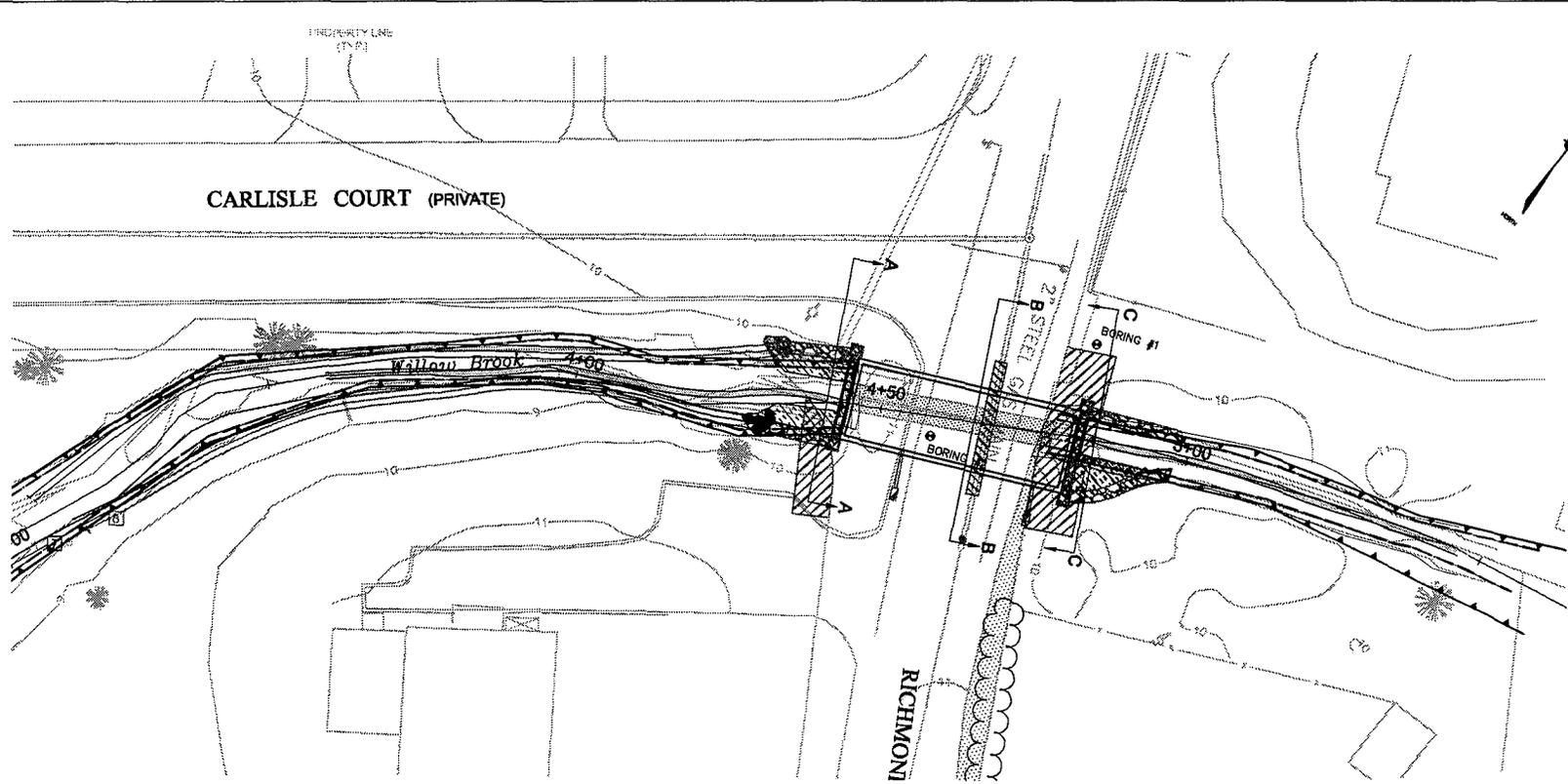
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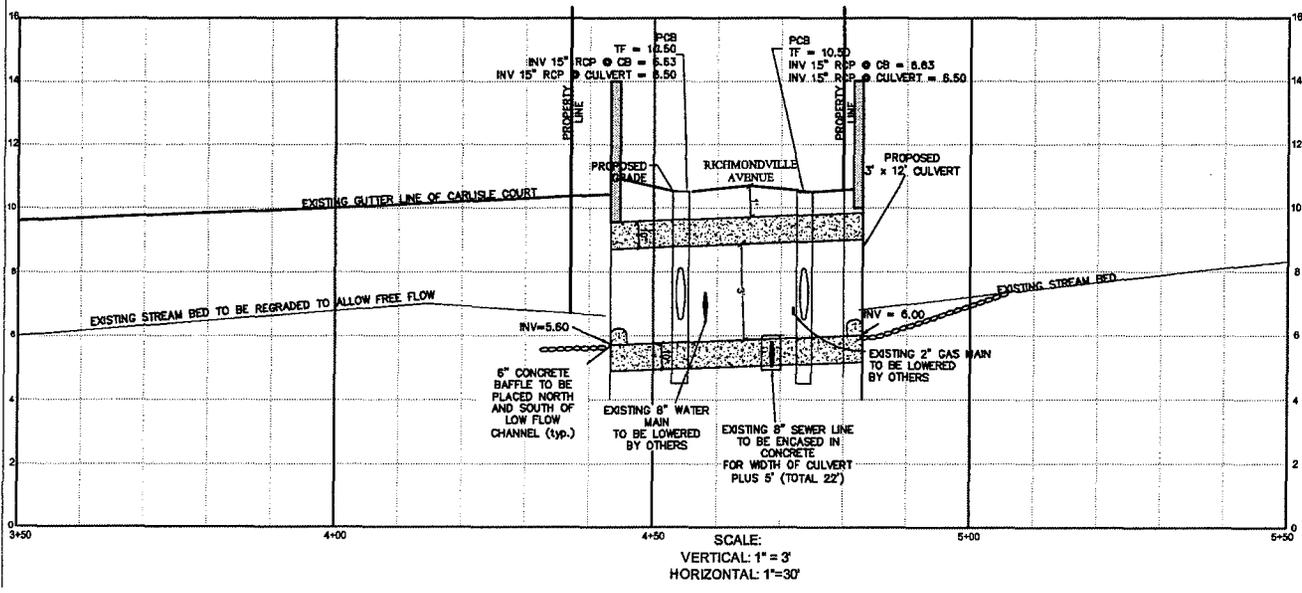
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MATCHLINE SHEET 3
 CLP 17334

Drawing: H:\MS-11\DWG\ACE PERMIT SUBMISSION SHEET 02-05-LOW FLOW CHANNEL DETAIL.DWG Layout: 10/05_PUN-PROFILE 8.5X11



- BORING #1**
 5' - 7' GRAVEL & MINOR CLAY
 10' - 12' GRAVEL
 15' - 17' GRAVEL
 20' - 22' GRAVEL
 BLOW COUNT 13+ AVERAGE
- BORING #2**
 5' - 7' SILT
 10' - 12' GRAVEL
 15' - 17' GRAVEL
 20' - 22' GRAVEL
 BLOW COUNT 12 AVERAGE



RICHMONDVILLE AVENUE AT CARLISLE COURT,
 TOWN OF WESTPORT, COUNTY OF FAIRFIELD,
 STATE OF CONNECTICUT

GENERAL NOTES
 SURVEY DATA COMPILED FROM FIELD WORK BY HAMMONS, LLC
 AND MAP ENTITLED "EXISTING CONDITIONS MAP PREPARED FOR
 THE TOWN OF WESTPORT IN THE VICINITY OF RICHMONDVILLE AVENUE, CARLISLE COURT
 AND WILLOW BROOK, WESTPORT, CONNECTICUT." SCALE: 1" = 10', DATED MAY 25,
 2008 BY STEIN SURVEY.

THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES
 TO PROTECT ALL EXISTING UTILITIES LOCATED WITH THE VICINITY
 OF THE CONSTRUCTION SITE.

CONTOUR INTERVAL IS ONE FOOT, VERTICAL DATUM NAVD 1988.

UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED
 HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE
 RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL
 TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED
 APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE
 SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO HAMMONS LLC. THE SIZE, LOCATION
 AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED
 BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG
 1-800-922-4455.

PROFILE - PROPOSED CULVERT REPLACEMENT

PREPARED FOR
TOWN OF WESTPORT
 RICHMONDVILLE AVENUE @ LEE'S CANAL
 WESTPORT, CONNECTICUT
 AUGUST 8, 2008
 SHEET 5 OF 8



TOWN OF WESTPORT
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION

REVISIONS: JULY 2008
 AUG. 2008

SCALE: _____

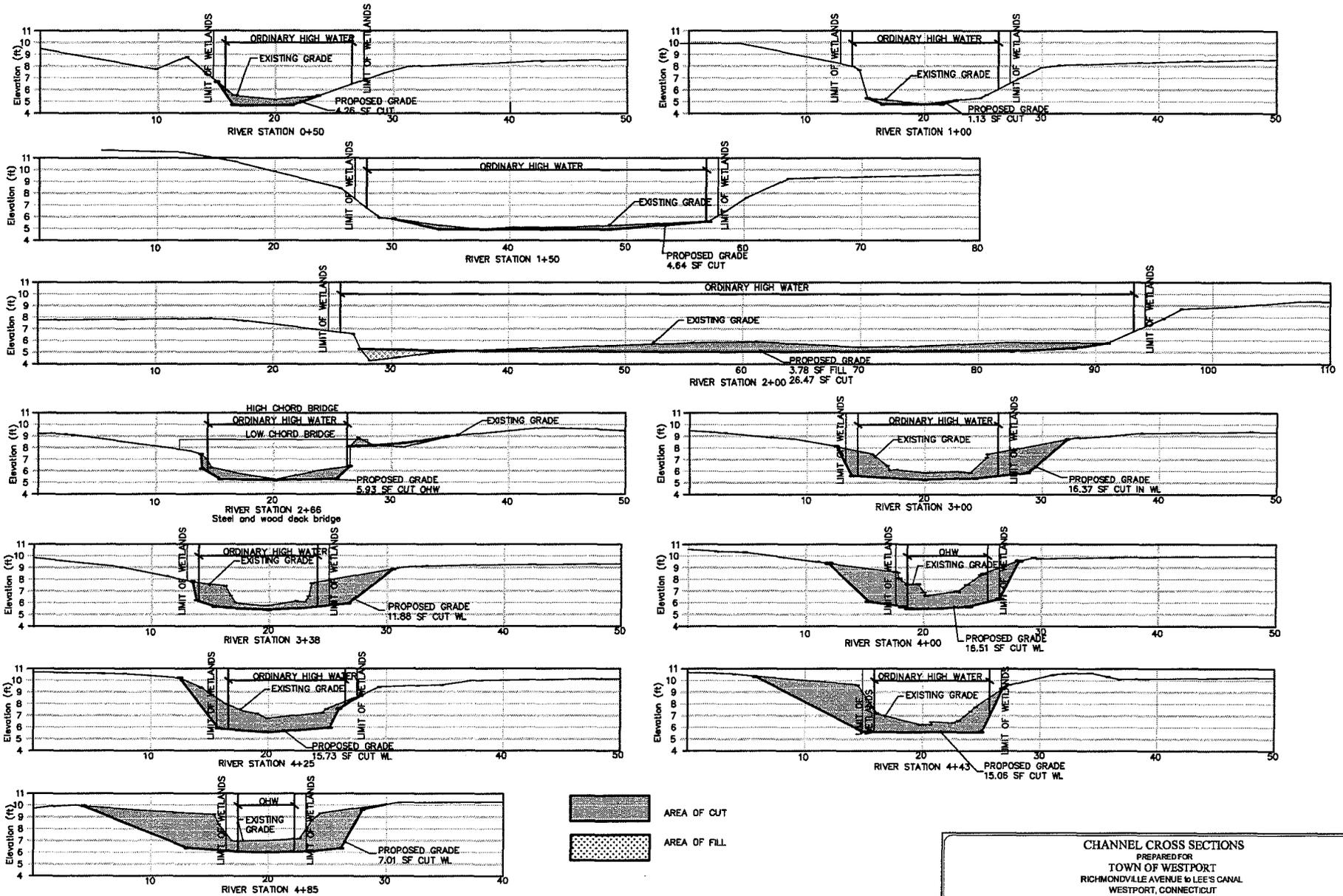
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 CHECKED BY: _____

FR: _____
 PROJ. NO.: 1455-11
 DWG. NO.: _____

TOWN HALL, 110 MYRTLE AVENUE
 WESTPORT, CONNECTICUT 06890
 203-541-1120
 (F) 203-454-0783
 www.townofwestport.gov

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Printed by: BECKYM On this date: Wed, 2010 March 3 - 10:29pm



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 AREA OF FILL

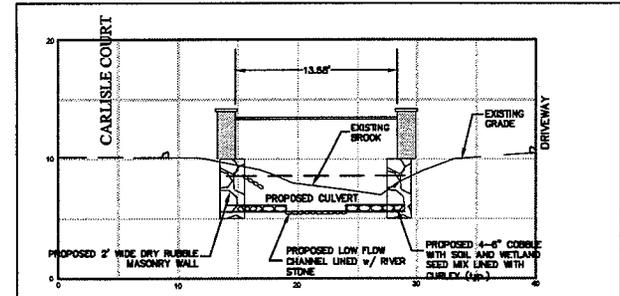
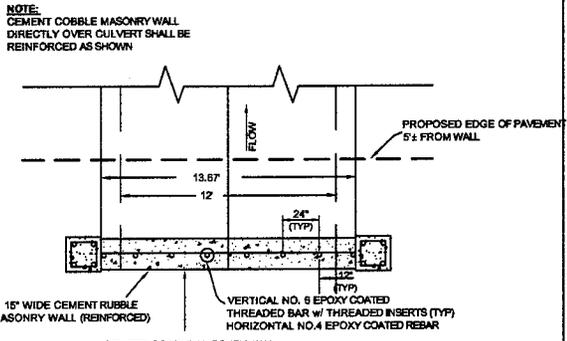
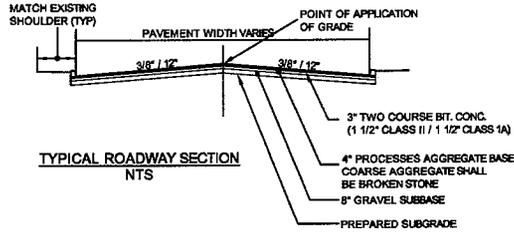
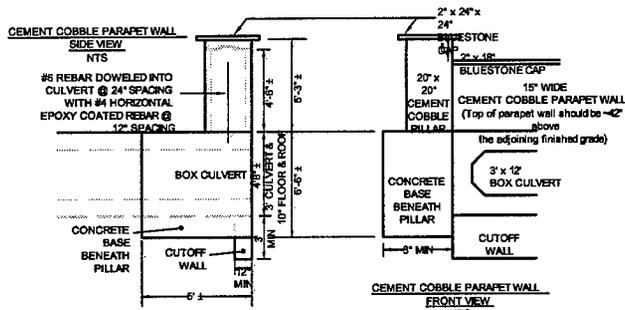
CHANNEL CROSS SECTIONS

PREPARED FOR
TOWN OF WESTPORT
 RICHMONDVILLE AVENUE to LEE'S CANAL
 WESTPORT, CONNECTICUT
 AUGUST 8, 2008
 SHEET 8 OF 8

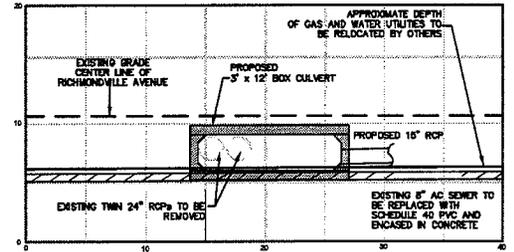
REVISED: JULY 2008
REVISED: JUNE 2008

TOWN OF WESTPORT		FIELD DATE:	DATE:	FIG. NO:
DEPARTMENT OF PUBLIC WORKS		DRAWN BY:	NAME:	PROJ. NO.:
ENGINEERING DIVISION		CHECKED BY:	NAME:	DWG. NO.:
TOWN HALL, 110 BUTLER AVENUE WESTPORT, CONNECTICUT 06880 203 341 1120 0 203 454 8180 www.townofwestport.gov		SCALE:	1"=12'	
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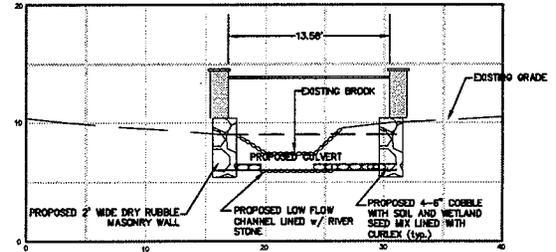




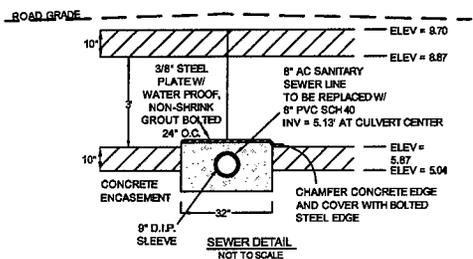
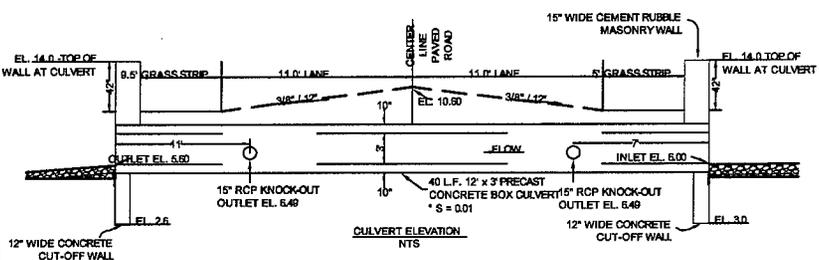
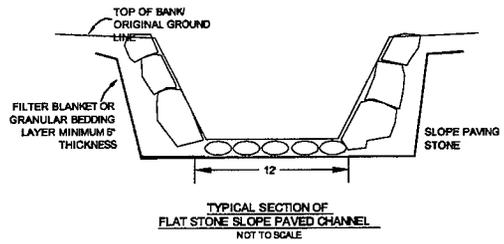
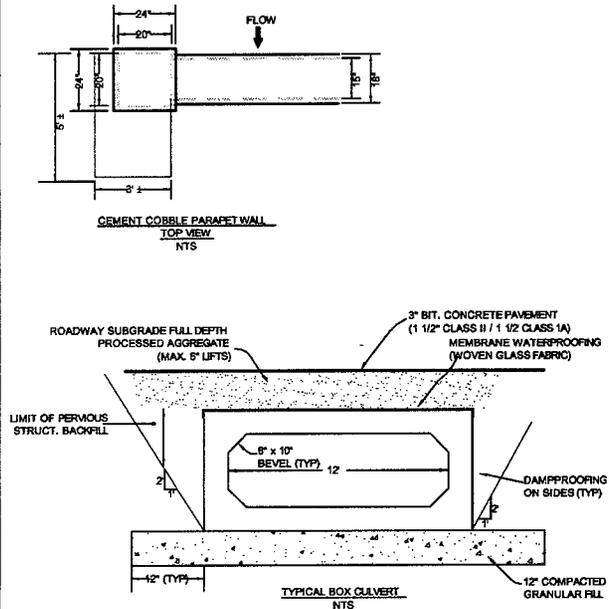
SECTION A-A (4 + 42)
 5' DOWNSTREAM OF CULVERT



SECTION B-B (4 + 65)
 CENTER LINE CULVERT
 CENTER LINE RICHMONDVILLE AVENUE



SECTION C-C (5 + 00)
 24' UPSTREAM OF CULVERT
 NOT TO SCALE



DETAILS
 PREPARED FOR
TOWN OF WESTPORT
 RICHMONDVILLE AVENUE TO LEE'S CANAL
 WESTPORT, CONNECTICUT
 AUGUST 8, 2008
 SHEET 7 OF 8

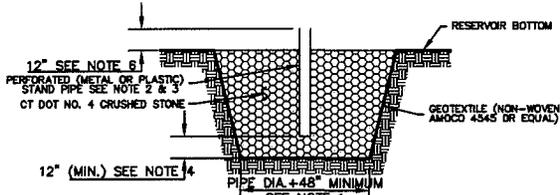
REVISED: AUG. 2008
 REVISED: JUNE 2009



TOWN OF WESTPORT
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 TOWN HALL, 110 MYRTLE AVENUE
 WESTPORT CONNECTICUT 06890
 203.341.6100
 (P) 203.434.2785
 www.townofwestport.gov

FIELD DATE	DATE	FR.	FB
DRAWN BY:	NAME	PROJ. NO.:	PROJ. #
CHECKED BY:	NAME	DWG. NO.:	DWG. NO.
SCALE: AS NOTED			
DRAWING NAME:		DWGFILE	

RICHMONDVILLE AVENUE AT CARLISLE COURT, TOWN OF WESTPORT, COUNTY OF FAIRFIELD, STATE OF CONNECTICUT

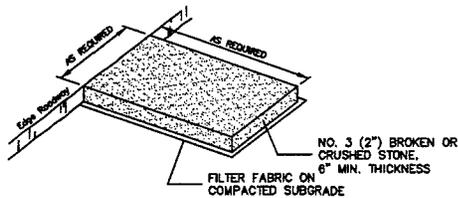


NOTES:

- OVERALL SUMP PIT DIMENSIONS TO BE COMPATIBLE WITH ANTICIPATED SEEPAGE RATES AND PUMP TO BE USED.
- THE STAND PIPE DIAMETER AND NUMBER OF PERFORATIONS TO BE COMPATIBLE WITH THE PUMP SIZE BEING USED.
- PERFORATIONS IN THE STANDPIPE TO BE EITHER CIRCULAR OR SLOTS, PERFORATION SIZE SHALL NOT EXCEED 1/2" DIAMETER.
- NO. 4 CRUSHED STONE CONFORMING TO CT DOT FORM 816, M.01.01. CRUSHED STONE SHALL EXTEND A MINIMUM OF 12" BELOW THE BOTTOM OF THE STANDPIPE.
- A PROPERLY DESIGNED GEOTEXTILE TO BE PLACED BETWEEN THE EXISTING SOILS AND THE CRUSHED STONE BACKFILL.
- THE STANDPIPE SHALL EXTEND A MINIMUM OF 12" ABOVE THE SURROUNDING GROUND.

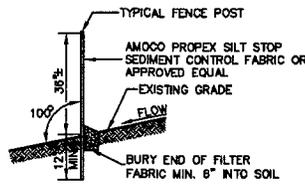
TEMPORARY CONSTRUCTION DEWATERING SUMP

N.T.S.



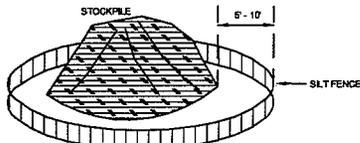
NOTE: CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH PROMOTE VEHICULAR TRACKING OF MUD.

CONSTRUCTION ENTRANCE PAD
N.T.S. (CS)



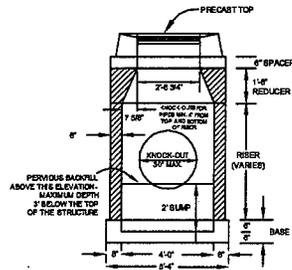
NOTE: IN LOCATIONS APPROVED BY ENGINEER OR SOIL SCIENTIST WOOD CHIP BERMS MAY BE USED IN PLACE OF SEDIMENT FILTER FENCE OR HAYBALES

SEDIMENT FILTER FENCE
N.T.S. (SSP)



INSTALL SILT FENCE AT BASE. APPLY MIXTURE OF PERENNIAL RYEGRASS, ANNUAL RYEGRASS AND WINTER RYE AT A RATE OF 10# PER 1000 SQ. FT.

STOCKPILE STABILIZATION
N.T.S.



STANDARD CATCH BASIN
TYPE "C" or "C4"
(REFER TO D.O.T. STANDARD NUMBER 907-1)
N.T.S.

GENERAL NOTES

SURVEY DATA COMPILED FROM FIELD WORK BY HAMMONS, LLC AND MAP ENTITLED "EXISTING CONDITIONS MAP PREPARED FOR THE TOWN OF WESTPORT IN THE VICINITY OF RICHMONDVILLE AVENUE, CARLISLE COURT AND WILLOW BROOK, WESTPORT, CONNECTICUT." SCALE: 1" = 10', DATED MAY 25, 2006 BY STEIN SURVEY. ADD 1.26' TO NAVD 1988.

SPECIFICATIONS

CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), AND SPECIAL PROVISIONS

DESIGN SPECIFICATIONS

STANDARD SPECIFICATION FOR HIGHWAY BRIDGES (ASHTO-1992), WITH THE INTERIM SPECIFICATION UP TO AND INCLUDING 1994, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL (1985).

ALLOWABLE DESIGN STRESSES

CLASS "C" AND CLASS "A" CONCRETE BASED ON $f'c = 3,000$ FOR C.I.P. AND 5,000 psi FOR PRECAST. REINFORCEMENT (ASTM A615 GR. 60) $f_s = 24,000$ psi

LIVE LOAD

HS 20-44; 24,000# DUAL AXES AT 4'-0" O.C.

FUTURE PAVING ALLOWANCE

NONE

REMAIN-IN-PLACE FORMS

THE USE OF THE REMAIN-IN-PLACE FORMS ON THIS STRUCTURE IS NOT ALLOWED.

CLASS "A" CONCRETE

CLASS "A" CONCRETE SHALL BE USED FOR THE WINGWALLS, FOOTINGS, AND CUT-OFF WALLS. CLASS "C" CONCRETE SHALL BE USED FOR PARAPETS.

EXPOSED EDGES

EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" x 1" UNLESS OTHERWISE NOTED ON THE PLAN.

REINFORCEMENT

ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

EPOXY COATED REINFORCING BARS

ALL REINFORCEMENT IN THE TOP SLAB OF CULVERT SHALL BE EPOXY COATED AND SHALL BE INCLUDED IN THE COST OF THE CULVERT. EPOXY COATED REINFORCING BARS SHALL BE USED TO CONSTRUCT PARAPETS ONLY WHERE NOTED AND SHALL BE PAID FOR UNDER "DEFORMED STEEL BARS - EPOXY COATED."

CONSTRUCTION JOINTS

CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

TRAFFIC

ALL WORK SHALL BE DONE IN THE ACCORDANCE WITH THE SPECIAL PROVISIONS "MAINTENANCE AND PROTECTION OF TRAFFIC" AND IN COORDINATION WITH THE TOWN OF WESTPORT.

UTILITIES

THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROTECT ALL EXISTING UTILITIES LOCATED WITHIN THE VICINITY OF THE CONSTRUCTION SITE.

CONSTRUCTION NOTES

ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF WESTPORT STANDARD SPECIFICATIONS. IN THE ABSENCE THEREOF REFER TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816.

SUBSURFACE STRUCTURES AND UTILITIES HAVE BEEN DETERMINED FROM EXISTING RECORDS AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. TO AVOID CONFLICT OF THE PROPOSED WORK AND EXISTING UTILITIES, THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES, BY EXCAVATING TEST HOLES. SHOULD THE CONTRACTOR DETERMINE THAT A CONFLICT EXISTS, HE SHALL PROMPTLY NOTIFY THE ENGINEER WHO WILL MAKE THE NECESSARY DESIGN ADJUSTMENTS.

CONTRACTOR IS TO NOTIFY "CALL BEFORE YOU DIG" AT LEAST TWO FULL WORKING DAYS BEFORE BEGINNING CONSTRUCTION (1-800-922-4455)

THE PHRASE "OR EQUIVALENT" USED ON THE PROJECT ALLOWS THE CONTRACTOR TO SUBSTITUTE CERTAIN MANUFACTURED ITEMS FOR EQUIVALENT ITEMS BY THE SAME OR ANOTHER MANUFACTURER. SUCH SUBSTITUTION REQUIRES WRITTEN APPROVAL BY THE ENGINEER IN ADVANCE.

EQUIPMENT AND MATERIAL STORAGE AND MAINTENANCE AREAS SHALL BE SUGGESTED BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO SITE CONSTRUCTION.

PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE TOWN, CONTRACTOR AND ENGINEER.

DEBRIS AND OTHER WASTE RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION ARE NOT TO BE DISCARDED ON-SITE. ALL WASTE MATERIALS ARE TO BE DISPOSED OFF-SITE BY CONTRACTOR.

SOIL EROSION AND SEDIMENT CONTROL NOTES

LAND DISTURBANCE WILL BE KEPT TO A MINIMUM; RESTABILIZATION WILL BE SCHEDULED AS SOON AS PRACTICAL.

SILT FENCE WILL BE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES, SOIL STOCKPILE AREAS, AND IN THOSE AREAS SHOWN ON THE PLAN.

SILT FENCE NOT INSTALLED PARALLEL TO THE SLOPE SHALL HAVE 5' LONG WINGS INSTALLED EVERY 100' TO INTERCEPT AND DIFFUSE FLOWS ALONG THE SILT FENCE.

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE STATE OF CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO LAND DISTURBANCE WHENEVER POSSIBLE.

ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED UNTIL STABILIZATION HAS BEEN ACHIEVED.

ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF NECESSARY OR REQUIRED. A MINIMUM OF 300' OF SILT FENCE SHALL BE STORED AT THE SITE FOR EMERGENCY USE.

THE PROJECT ENGINEER OR ENVIRONMENTAL MONITOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROLS. ALL MEASURES SHALL BE INSPECTED WEEKLY, BEFORE AN ANTICIPATED STORM EVENT. A FIELD REPORT SHALL BE PREPARED IDENTIFYING THE PROGRESS OF SITE DEVELOPMENT, OR EFFECTIVENESS OF THE MEASURES, ANY REMEDIAL ACTIONS OR FIELD CHANGES TO THE PLAN.

ANY EXCAVATIONS THAT MUST BE DEWATERED WILL BE PUMPED INTO AN ACTIVE DRAINAGE SYSTEM OR DISPERSED IN AN UNDISTURBED FIELD AREA. THE INLETS OF ALL PUMPS ARE TO BE FLOATED A MINIMUM OF 24" OFF THE BOTTOM OF THE EXCAVATION.

WATER AND CALCIUM CHLORIDE SHALL BE APPLIED TO UNPAVED ACCESSWAYS TO PREVENT WIND GENERATED SEDIMENTS AND DUST.

DEBRIS AND OTHER WASTES RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION ACTIVITIES WILL NOT BE DISCARDED ON-SITE.

SEDIMENT REMOVED FROM CONTROL STRUCTURES WILL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH INTENT OF THE PLAN.

SILT FENCES SHALL HAVE SEDIMENT REMOVED WHEN THE DEPTH OF THE SEDIMENT IS EQUAL TO 1/3 TO 1/2 THE HEIGHT OF THE FENCE. FENCES SHALL BE PROPERLY INSTALLED AND RIPPED. FENCE OR BROKEN POSTS REPAIRED AS SOON AS PRACTICAL.

SEDIMENT ATTENUATION DEVICES SHALL BE CLEANED WHEN SEDIMENT LEVELS REACH 1/3 THE DEPTH OF THE STRUCTURE OR 2' CATCH BASIN INSERTS SHALL BE CLEANED WHEN THE RESERVOIR IS FULL. HAY BALES SHALL BE REPLACED EVERY SIX WEEKS OR SOONER AS CONDITIONS WARRANT.

CONSTRUCTION ENTRANCE PADS AND GRAVEL CHECK DAMS SHALL BE REPLACED WHEN VOID SPACES ARE FULL OR STRUCTURES ARE BREACHED, AS APPLICABLE.

TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE SOIL SURFACE STABILIZED WHEN CONSTRUCTION IS COMPLETE AND THE SOIL SURFACES ARE PERMANENTLY STABILIZED. STRUCTURAL COMPONENTS SHALL BE CLEANED OF ALL SEDIMENT UPON COMPLETION OF CONSTRUCTION.

THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PLANNING AND ZONING COMMISSION OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT PLAN IF AND WHEN THE TITLE OF LAND IS TRANSFERRED.

NOTES AND DETAILS

PREPARED FOR
TOWN OF WESTPORT
RICHMONDVILLE AVENUE & LEE'S CANAL
WESTPORT, CONNECTICUT
AUGUST 8, 2008
SHEET 8 OF 9

REVISED: AUG. 2008
REVISED: JUNE 2009



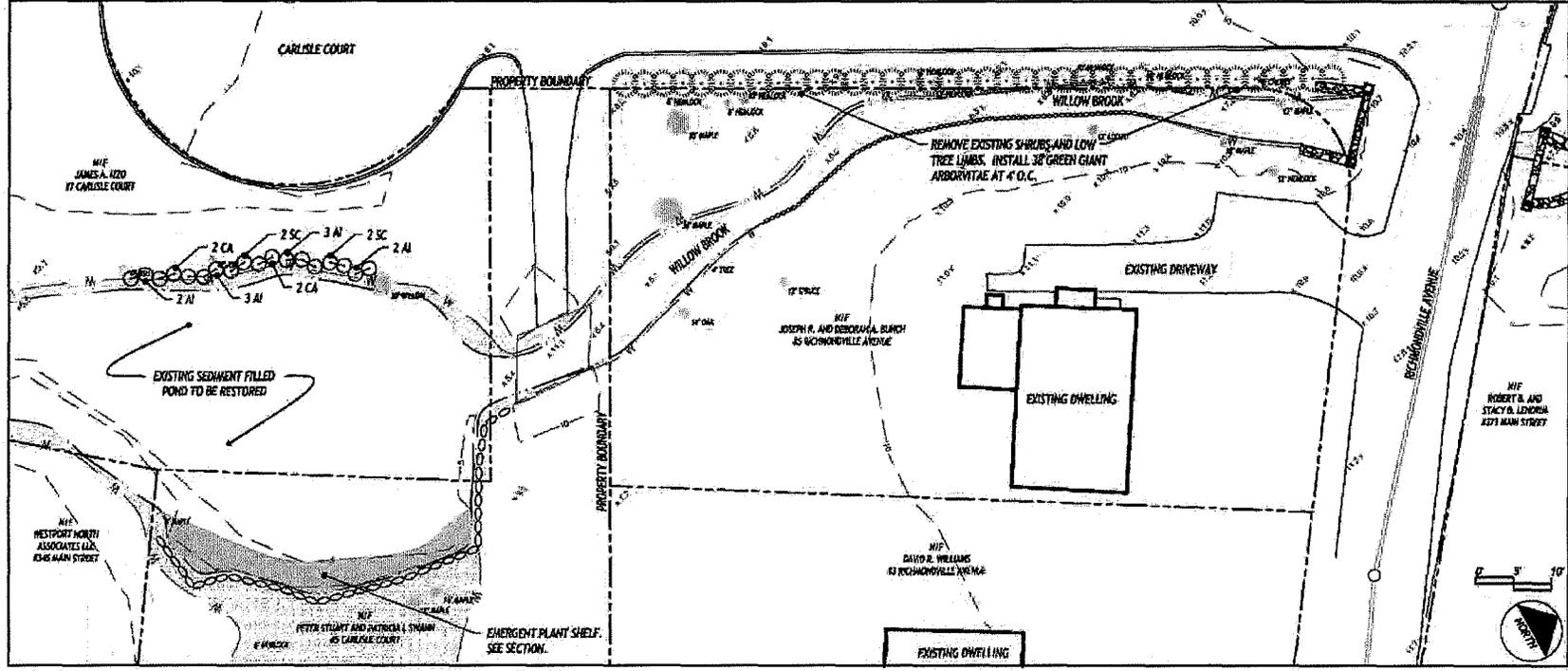
TOWN OF WESTPORT
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

TOWN HALL, 110 MYRTLE AVENUE
WESTPORT, CONNECTICUT 06880
203.341.1122
(3) 203.454.0783
www.westport.ct.gov

FIELD DATE:	DATE:	BY:	FB
DRAWN BY:	NAME:	PROJ. NO.:	PRJ.M
CHECKED BY:	NAME:	DWG. NO.:	DWG.D
SCALE:			
AS NOTED			
DRAWING NAME:		DWGFILE	

Drawing: H: 1485-11.DWG MOE PERMIT SUBMISSION SHEET 07-DETAILS.DWG Layout Tab:09 PLANTING PLAN

PLANTING PLAN



LEGEND

- EXISTING 10' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING SPOT GRADE
- PROPERTY BOUNDARY
- EXISTING WETLAND
- WATERCOURSE BOUNDARY
- EXISTING TREE TO REMAIN
- SUBSURFACE UTILITY LINE OR STRUCTURE
- PROPOSED EVERGREEN TREE
- PROPOSED NATIVE SHRUB
- PROPOSED EMERGENT SHELF

GENERAL NOTES

1. PROPOSED PLANTING INFORMATION PROVIDED BY WILLIAM KENNY ASSOCIATES LLC. EXISTING AND OTHER PROPOSED INFORMATION TAKEN FROM A PLAN PREPARED BY TOWN OF WESTPORT, DEPARTMENT OF PUBLIC WORKS AND DATED NOVEMBER 4, 2008.
2. LOCATIONS OF PROPOSED HERB PLANTINGS TO BE ADJUSTED IN THE FIELD BY THE PROJECT WETLAND SOLODIST BASED ON SOIL AND HYDROLOGICAL CONDITIONS.
3. PLANTING SPACING FOR HERBACEOUS MATERIAL TO BE 18" O.C. GROUP HERBACEOUS PLANTS BY SPECIES WITH A MINIMUM OF 10 PLANTS PER GROUP.
4. PLANTING SPACING FOR SHRUBS TO BE 3' O.C.
5. TO PREVENT DAMAGE FROM DEER BROWSE, PROPOSED SHRUB PLANTINGS SHALL BE TREATED WITH WHITE-TAILED DEER REPELLENTS NEEDED FOR TWO YEARS FOLLOWING INSTALLATION.

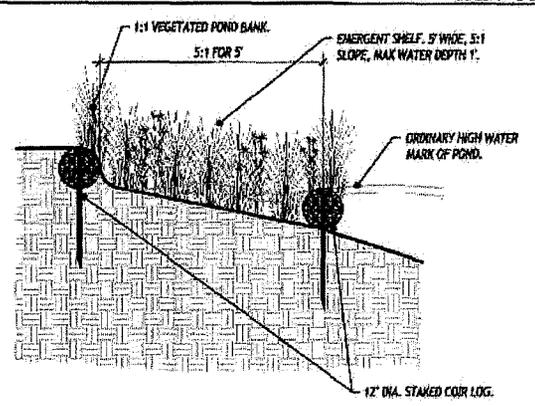
PLANT LIST

SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	FOOD	COVER	NESTING
TREES								
TG	38	TILIA OCCIDENTALIS GREEN GIANT	GREEN GIANT ARBORVITAE	5'-6' HT.	DBB	FS,S	*	*
TOTAL:	38							
SHRUBS								
AI	10	ALNUS INCANA	SPECKLED ALDER	24'-36' HT.	CONTAINER	FF,P	*	*
CA	4	CLETHRA ALNFOLIA	SUMMER SWEET	24'-36' HT.	CONTAINER	PWF,P	*	*
SC	4	SAMBUCUS CANADENSIS	AMERICAN ELDERBERRY	24'-36' HT.	CONTAINER	FF,P	*	*
TOTAL:	18							
HERBS								
AA	35	ACORIS AMERICANUS	SWEETFLAG		CONTAINER	FF,P	*	*
IP	35	IRIS PRISMATICA	SLENDER BLUE FLAG IRIS		CONTAINER	FF,P	*	*
PV	35	PELTANDRA VIRGINICA	ARROW ARUM		CONTAINER	FF,P	*	*
PC	35	PONTEDERIA CORDATA	PICKEREL WEED		CONTAINER	FF,P	*	*
SL	35	SAGITTARIA LATIFOLIA	ARROWHEAD		CONTAINER	SSS,P	*	*
TOTAL:	175							

WILDLIFE BENEFIT KEY

FOOD TYPE: S=SEED, P=PLANT PART, N=NECTAR, R=ROOTSTOCK
 FOOD AVAILABILITY: ESF=EARLY SUMMER FRUITS, FF=FULL FRUITS, PWF=PERSISTENT WINTER FRUITS, SSS=SPRING/SUMMER SEEDS, FS=FALL SEEDS
 * INDICATES SIGNIFICANT CONTRIBUTION

EMERGENT PLANT SHELF DETAIL



WILLIAM KENNY ASSOCIATES LLC
 SOIL SCIENCE
 ECOLOGICAL SERVICES
 LAND USE PLANNING
 LANDSCAPE ARCHITECTURE

217 WEBS ROAD
 FAIRFIELD, CT 06825
 PHONE: 203 366 0588
 FAX: 203 366 0067
 www.wkassociates.net

PLANTING PLAN
 PREPARED FOR
TOWN OF WESTPORT
 181 MONROVILL AVENUE TO LEE'S CANAL
 WESTPORT, CONNECTICUT
 FEBRUARY 2, 2010
 SHEET 9 OF 8

TOWN OF WESTPORT
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION

FIELD DATE: _____ FR: _____
 DRAWN BY: _____ PROJ NO.: 1485-11
 CHECKED BY: _____ DWG NO.: _____
 SCALE: _____

NOT TO SCALE

DRAWING NAME: DWGFILE

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