

**TOWN OF EAST HARTFORD
PLANNING & ZONING COMMISSION
APPLICATION FORM**

DATE: _____

Official Receipt Date:

____ / ____ / ____

1. APPLICATION TYPE: (CHECK ALL THAT APPLY)

***COMPLETE SECTION ON PAGE 2 OR 3**

- | | |
|--|--|
| <input checked="" type="checkbox"/> SITE PLAN APPLICATION | <input type="checkbox"/> NATURAL RESOURCES REMOVAL AND FILLING |
| <input type="checkbox"/> SITE PLAN MODIFICATION | <input type="checkbox"/> SPECIAL USE PERMIT* |
| <input checked="" type="checkbox"/> FLOOD HAZARD – MAJOR* | <input type="checkbox"/> ZONING MAP CHANGE* |
| <input type="checkbox"/> FLOOD HAZARD – MINOR* | <input type="checkbox"/> TEXT AMENDMENT* |
| <input type="checkbox"/> SOIL EROSION AND SEDIMENTATION - Cumulative disturbed area (sq. ft.): <u>11,600+/- SF</u> | |

2. SITE AND PROJECT INFORMATION

PROPERTY ADDRESS: 1, 6, and 10 South Meadow Lane ZONE: R-3

ASSESSORS MAP AND LOT: 8-11, 8-12, 8-13 PARCEL SIZE (ACRES OR SQ. FT.): 12.7+/- acres

PROJECT NAME: South Meadows Multi-Use Recreational Trail Phase IIIA

PROJECT DESCRIPTION (ATTACH ADDITIONAL SHEETS IF NEEDED):

Construction of recreational walking trail - includes 720 LF of a 10' wide bituminous concrete trail, informational and directional signage, and concrete pads for benches. See attached General Narrative for additional information.

3. PROPERTY OWNER INFORMATION

☐ CHECK IF PRIMARY CONTACT

OWNER OF RECORD: See Attached

OWNER ADDRESS: _____

OWNER PHONE: _____ OWNER EMAIL: _____

OWNER SIGNATURE:  PRINT NAME: Bryant Harrell

The undersigned owner hereby authorizes: (1) this application, and (2) the Planning and Zoning Commission and Town of East Hartford staff the right to enter upon the property for the purposes of inspection associated with this application.

4. APPLICANT INFORMATION

☐ CHECK IF PRIMARY CONTACT

☐ CHECK IF APPLICANT IS SAME AS PROPERTY OWNER

APPLICANT: Goodwin College, Inc.

APPLICANT ADDRESS: One Riverside Drive, East Hartford, CT 06118

APPLICANT PHONE: 860-727-6756 APPLICANT EMAIL: BHarrell@Goodwin.edu

APPLICANT SIGNATURE:  PRINT NAME: Bryant Harrell

5. DESIGN PROFESSIONAL INFORMATION

☒ CHECK IF PRIMARY CONTACT

FIRM: Zuvic, Carr and Associates

PHONE: 860-436-4901

CONTACT PERSON: Galen Semprebon, PE, LEED AP

EMAIL: galen@zuvic.com

- COMPLETE ONLY THE SECTIONS THAT APPLY TO YOUR APPLICATION TYPE -

A. SPECIAL USE PERMIT

(ATTACH ADDITIONAL SHEETS IF NEEDED)

1) Applicable Section of the Zoning Regulations: _____

2) Describe how the proposed Special Use Permit relates to the Plan of Conservation and Development:

3) Describe how the proposed Special Use Permit will benefit the Town of East Hartford:

B. FLOOD HAZARD ZONE – MAJOR DEVELOPMENT OR MINOR DEVELOPMENT

1) Name of associated watercourse: Connecticut River

2) Total amount of land (in sq. ft.) to be affected within the:

a. Flood Hazard Zone: 11,600+/-SF

b. Floodway: 11,600+/- SF

c. Floodway fringe: 0 SF

3) Enumerate methods of compliance with Sections 601.10, 601.11, and 601.12 of the Zoning Regulations:

Section 601.10 - (a) Proposed natural trail will generally match the existing natural grades and grading will be kept to a minimum to provide a level walking surface. There will be no adverse affects to flood storage capacity or changes in site hydrology due to the project improvements. (b) Benches will be removed during the flood season. (c) The existing natural surface of the trail will be maintained. (d) No utilities are proposed in the project.
Section 601.11 - Benches will be removed during flood season. Proposed concrete pads will be constructed to match existing grades.
Section 601.12 - Proposed grades will generally match existing grades. There will be no adverse impacts to floodway functions and storm drainage due to project improvements.

General Narrative
Planning & Zoning Application
South Meadows Multi-Use Recreational Trail Phase IIIA
East Hartford, CT

May 07, 2018

The purpose of this application is to permit the construction of a 720' long, 10' wide paved trail, across three properties in East Hartford located along the east side of the Connecticut River. The East Hartford trail is one phase of a larger project, known as the South Meadows Multi-Use Recreational Trail project, which extends from East Hartford through Wethersfield and into Glastonbury ending at the Putnam Memorial Bridge. Concrete pads for benches and informational and directional signage are proposed along the trail that will match the benches and signage approved for the previous sections.

The proposed East Hartford trail will be constructed over 3 properties on land totaling approximately 12.7 acres. The proposed trail alignment will follow the top of the embankment along the river.

The total increase in impervious coverage will be approximately 7,200 S.F. (0.165 AC.) to accommodate the ADA compliant trail portion of the project. The increase in impervious coverage is minimal (1.3%) for the 12.7 acres of land involved, and any additional runoff that is not infiltrated into the adjacent vegetated areas would drain to the CT River. Due to the location of the site within the bottom of the CT River watershed, any increase in runoff to the CT River would not have any impact on the peak flows within the CT River. The walking trails will be constructed at existing grade and will not change any drainage patterns on the properties. The runoff from the impervious ADA trail will be directed onto the existing natural surfaces adjacent to the trail. The gravel under the ADA trail will also provide some storage for subsurface infiltration.

An endangered species review was conducted of the proposed route and no endangered plant species were found in the trail corridor. There is one area of Federally Defined Wetlands in close proximity to the trail. The trail is designed to maintain a minimum separation distance from the Federally Defined Wetlands. The intent is that the trail be installed without removal of large trees (over 6" caliper) and that no clearing of vegetation beyond that required to provide the trail will be done. The walking trail will generally follow the existing grade and will not change any drainage patterns on the properties involved. The Federal Wetlands will be protected by temporary fencing during construction.

The entire trail is located within the Flood Zone AE and within the Town Inland Wetlands. Construction will not occur during the normal flood season, and caution will be taken during construction to monitor flood conditions. A Construction Flood Contingency Plan is included in the Site Plans. Construction will also be timed to avoid work during the eagle breeding season. A complete description of the proposed erosion and sedimentation control measures and operation and maintenance schedule for the project is also included in the Site Plans.

Planning and Zoning Commission Application Form
#3 - Property Owner Information
South Meadows Multi-Use Recreational Trail Phase III-A
East Hartford, CT
December 8, 2017

Map-Lot	Property Address	Owner	Owner Address
8-11	10 South Meadow Ln	Goodwin College, Inc.	One Riverside Drive East Hartford, CT 06118
8-12	6 South Meadow Ln	William H. Parker	William H. Parker c/o Russell Bidwell 3180 Hebron Avenue Glastonbury, CT 06033
8-13	1 South Meadow Ln	Goodwin College, Inc.	One Riverside Drive East Hartford, CT 06118

TOWN OF EAST HARTFORD

**PLANNING AND ZONING COMMISSION
INLAND WETLANDS AND WATERCOURSES COMMISSION
PROPERTY OWNER'S CONSENT**

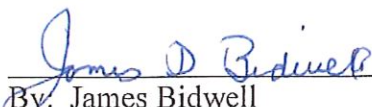
HOCKANUM MEADOWS MULTI USE RECREATIONAL TRAIL

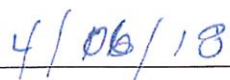
PROPERTY: 6 South Meadow Lane, Map No. 8, Lot No. 12

Owner: William H. Parker c/o James Bidwell

This is to certify and advise that the undersigned owns or represents the owner of the above-referenced property is aware of and hereby gives consent to the application of Goodwin College, Inc. to the Planning and Zoning Commission and the Inland Wetlands and Watercourses Commission for its property located at 6 South Meadows Lane, East Hartford, Connecticut for the land use approvals necessary for the construction of the multi-use recreational trail in the Hockanum Meadows, East Hartford, Connecticut as shown on the map submitted with its applications.

Goodwin hereby agrees to defend, indemnify and hold harmless, the Owner and its respective officials, officers, employees, agents, servants, successors and assigns (collectively, the "Owner Indemnitees") against all suits, claims, damages, losses, liabilities, costs and expenses of every nature arising out of or as a consequence of the acts, omissions or negligence of Goodwin, its subcontractors, and/or any of their respective officers, directors, employees, agents, invitees, contractors, suppliers and/or representatives in performance of this Consent


By: James Bidwell
Owner


Date

Town of East Hartford
South Meadows Multi-Use Recreational Trail Phase IIIA
Storm Drainage Report
East Hartford, CT
April 30, 2018
Revised May 9, 2018

The project consists of the construction of a public access trail for recreation within the South Meadows located along the east side of the Connecticut River in East Hartford CT. The proposed trail will be approximately 720 feet in length and 10 feet in width. It will be constructed of bituminous concrete pavement. Near the southern end of the trail, the proposed trail will cross an existing swale. To provide a continuous and safe walking path across the swale and preserve the function of the swale, a piped culvert crossing is proposed.

Generally, the trail will require the excavation of 11" in depth of existing soil material and installation of 8" of gravel and 3" bituminous surface. Approximately 22,400 SF of land will be disturbed for the project, and the total increase in impervious coverage will be approximately 7,200 S.F. (0.1653 AC.) to accommodate the trail. The increase in impervious coverage is minimal (approximately 1.3%) for the 12.7 acres of land involved. Due to the location of the trail within the bottom of the CT River watershed, any increase in runoff to the CT River would not have an impact on the peak flows within the CT River.

Due to the location of the properties within the FEMA floodplain, the trail will be constructed to match existing grades to the greatest extent practicable. The cuts and fills have been balanced, and there will be no change to the drainage patterns on the properties. The runoff from the impervious trail will be directed onto the existing natural surfaces adjacent to the trail, and any runoff that is not infiltrated in the adjacent vegetated areas would drain to the Connecticut River. The gravel under the trail will provide some storage for subsurface infiltration.

The entire trail is located within the Limits of Inland Wetlands per the Town of East Hartford Inland Wetlands and Watercourses Map dated 4-29-2005, and there is a Federally Defined Wetland Area in close proximity to the proposed trail (as shown on the attached plans).

The proposed 12" pipe is being proposed to help maintain existing hydraulic conditions in this area. Under existing conditions, there is a wetland area to the northeast of the proposed culvert. There is approximately 13 acres of land draining to this wetland area. During high flow events, the wetland area overflows to the Connecticut River. There is a ditch in this area that may have been man made to help control this overflow, though according to REMA Ecological Services, this is not a regulated watercourse or intermittent watercourse. For a 25 year storm event, there would be approximately 24.3 CFS of flow to the inland wetlands. For a 2, and 10 year storm event, the flows would be 13.26 CFS and 19.89 CFS respectively (see attached drainage calculations using the rational method).

The intent of the proposed cross culvert is to maintain existing hydraulic conditions within the wetland area. The edge of the wetland area is at approximately 14.20+-, and this area under existing conditions fills up to approximately 15.0 before it starts draining toward the Connecticut River. The proposed 12" culvert will be set at elevation 15.0 to maintain the existing elevation for draining to the Connecticut River. Under high flow condition, the lowest point in the pathway was set at elevation 16.0 to act as an overflow spillway allowing higher flow events to drain over the walkway.

A check was made to determine if the capacity of the existing ditch immediately adjacent to the proposed 12" culvert was approximately the same as the 12" culvert. Based on the analysis (see attached calculations), the ditch and culvert have approximately the same capacity.

Report by Galen Semperebon, P.E., LEED AP
 Senior Project Manager
 Zuvic Carr and Associates

DRAINAGE CALCULATIONS

GOODWIN - SOUTH MEADOWS TRAILS - Phase IIIA

DRAINAGE Area (A) = 13.04 AC (see attached map)

TIME OF CONCENTRATION (T_{OC}):

LENGTH OF TRAVEL = 1825 LF

outlet elev = 15

High PT = 48

$\Delta = 33'$

T_{OC} = 12.5 min (Per Kirpich chart)

Runoff Coeff:

Neighborhood Residences

% of Total

Coeff.

61.06%

C = 0.4

Gravel

2.43%

C = 0.25

Woods / Unimproved / Parks

36.51%

C = 0.2

Runoff Coeff = 0.34

$Q = CIA$

2-YR STORM

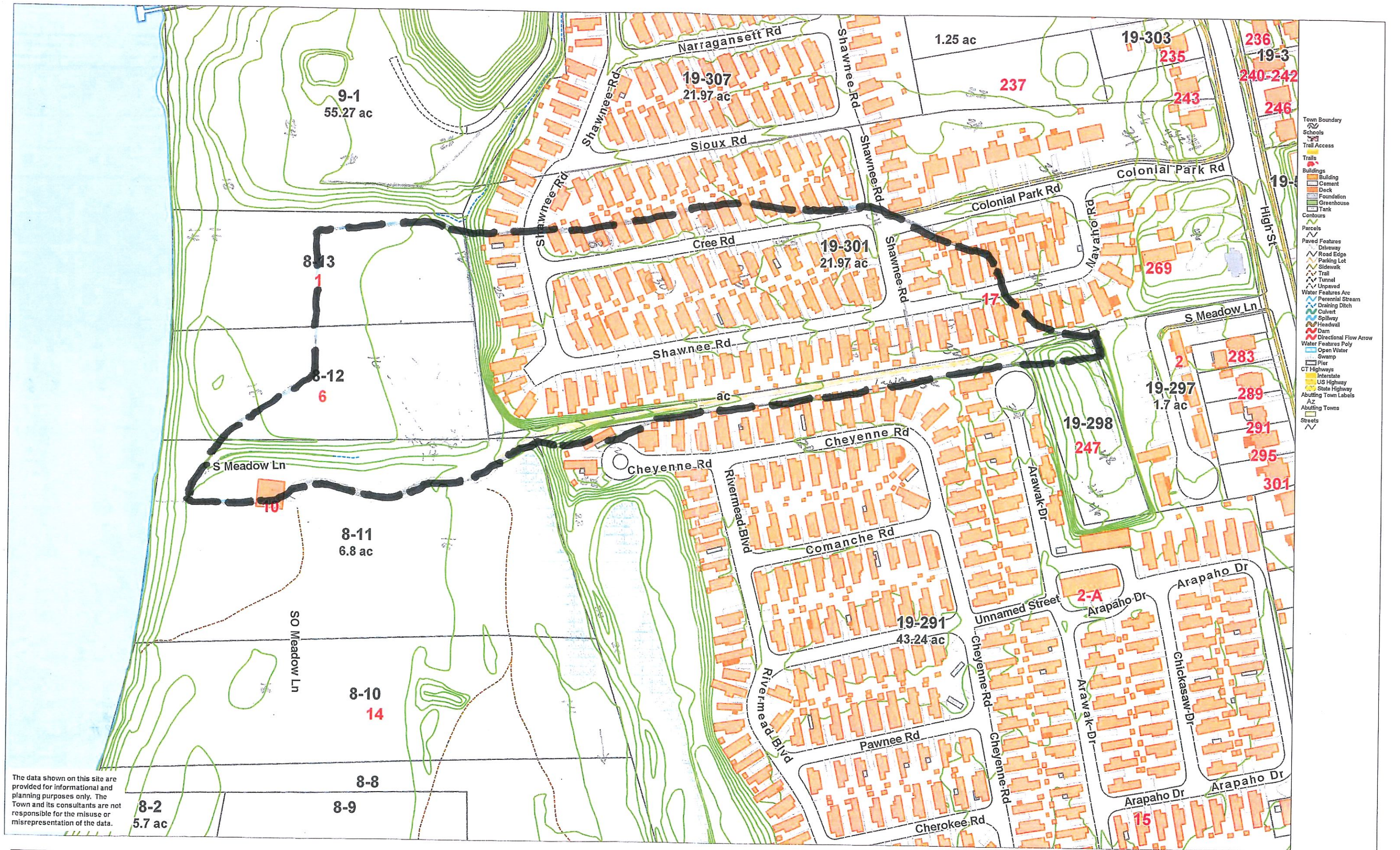
$$Q = (0.34)(3.0)(13 AC) = 13.26 CFS$$

10-YR STORM

$$Q = (0.34)(4.5)(13) = 19.89 CFS$$

25-YR STORM

$$Q = (0.34)(5.5)(13) = 24.31 CFS$$

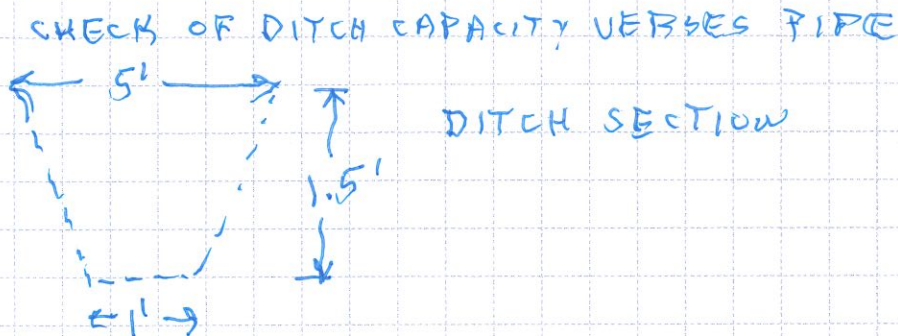


The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.

0 210 420 ft

Printed on 12/14/2017 at 03:03 PM

East Hartford MapsOnline



$$V = (1.49/n) R^{2/3} S^{1/2}$$

$n = 0.1$ - med. to dense brush in summer

$R = \text{hydraulic Radius} = A/P$

$$A = 4.5 \quad P = 9.544 \quad = 0.4715$$

$$S = 1\% \pm \approx 0.01$$

$$V = \left(\frac{1.49}{0.1} \right) (0.4715)^{2/3} (0.01)^{1/2} = 0.9023$$

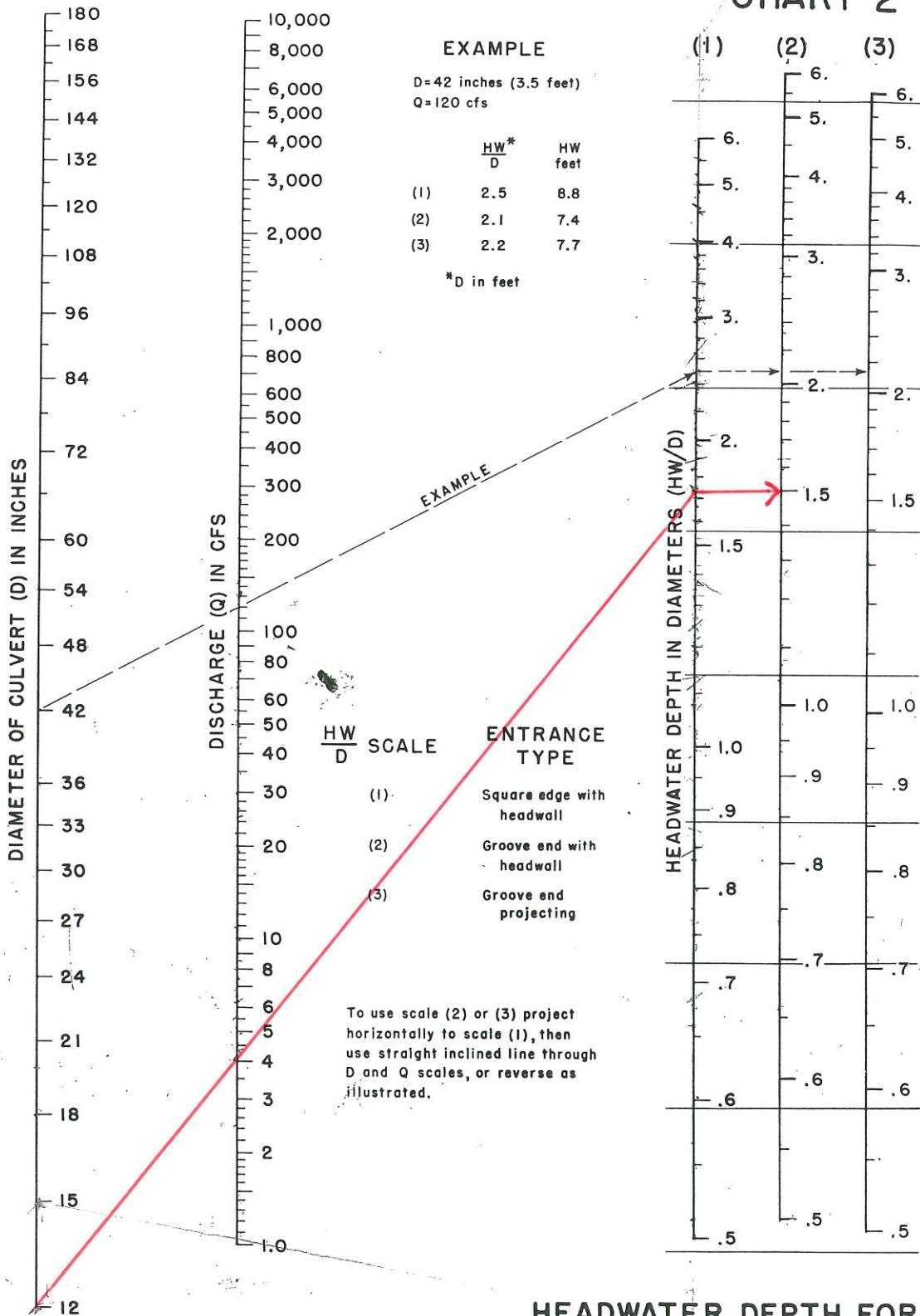
$$Q = VA = (0.9023)(4.5) = 4.0604 \text{ (IN DITCH)}$$

Q of 12" Pipe with 6" head (18" Flow Depth) = 4.2 FS \pm
Per chart \bar{n} attached.

CHECK IS OK - PIPE CAPACITY \approx DITCH CAPACITY.

RCP

CHART 2



HEADWATER DEPTH FOR CONCRETE PIPE CULVERTS WITH INLET CONTROL

HEADWATER SCALES 2 & 3

REVISED MAY 1964

BUREAU OF PUBLIC ROADS JAN. 1963