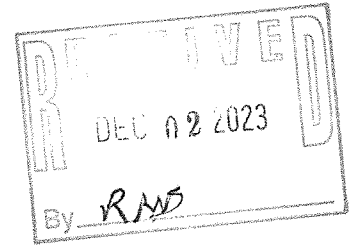


Morris Housing Authority
East Street Housing
Application for a Special Exception



November 2023

Statement of Use

The proposed use of this site will be eight units of rental housing in two buildings. This will be owned and managed by the Morris Housing Authority and will be affordable to residents who earn a range of incomes below 80% of the area median income.

The Morris Housing Authority (MHA) is applying for this special exception under the "Town-Sponsored Multi-Family Housing" section of the zoning regulations. This section states that the purpose is to permit the creation of needed housing sponsored by the Town of Morris.

The Town of Morris provided American Rescue Plan Act (ARPA) funding to the MHA to allow them to purchase this site for this use and is now supporting the MHA with an application to the CT Dept. of Housing for the funding to build the water, septic, and driveway infrastructure that will be needed on the site to accommodate these eight units of housing.

The Morris Housing Plan (adopted October 5, 2021) details the need for this type of housing and supports this use for this site (p. 12). As the plan further details, the Town had 268 households that were housing cost burdened and long waiting lists at the MHA's one existing affordable housing development.

TOWN OF MORRIS

APPLICATION FOR ZONING PERMIT

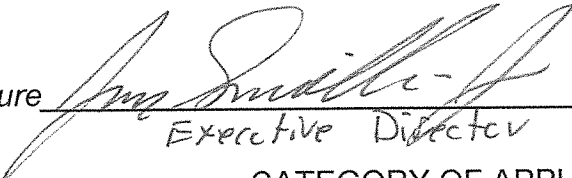
Property Location: 103 East Street Date: 11/7/23 Application/Permit #: MHA-23-01

Owner (of Property): Morris Housing Authority C/O Jim Simincelli Jr.

Mailing Address: 109 East Street Phone Number: 860-567-5876

Cell Number: 860-459-4417 Email Address: jimsimoncelli@outlook.com
(Jim Simoncelli Jr.)

The undersigned hereby makes application for a zoning permit under the provisions of the Morris Zoning Regulations of the Town of Morris, Connecticut.

Owner's Signature  Date 11/7/23
Executive Director

CATEGORY OF APPLICATION

A: Application is made for one or more of the following:

- ☐ use of land
- ☐ change of use of existing building or structure
- ☒ proposed building or structure and use thereof
- ☐ sign
- ☐ certificate for a lawful nonconformity

B: The proposal involves one or more of the following under the requirements of the Zoning Regulations:

- ☐ outside storage area
- ☐ landscaping
- ☒ parking area
- ☒ driveway access
- ☐ loading space
- ☐ flood plain district (see Sec. 53)
- ☒ on-site sewerage and/or water supply

C: The proposal is authorized by the Regulations (under one or more of the following):

- ☐ as a matter of right in the appropriate district
- ☐ subject to approval of a SITE PLAN (see Sec. 51)
- ☒ subject to approval of a SPECIAL EXCEPTION (see Sec. 52)
- ☐ as an extension of use _____ excavation and grading (see Sec. 64)
- ☐ subject to Certificate of Approval of Location from Zoning Board of Appeals
- ☐ other: _____

Location/Address of Property: 103 East Street

Map: 17 Block: 380 Lot: 107

The lot has frontage of 50 (feet) on one or more of the following:

- ☒ state highway
☐ accepted town road
☐ in a filed subdivision approved by the Planning Commission with a completion bond in effect
☐ in a filed subdivision approved by the Planning Commission with no completion bond in effect
☒ other, please describe 316.38 ft on a private road leading to the existing Eldridge Elderly Housing complex.

Zoning District: R-60 Existing Use of Property/Structure: Vacant Land

Area of Lot: 111,897 sqft

Purpose of Proposed Building/Use Is: Multi-family, affordable housing.

EXISTING STRUCTURES:

There are (are not) existing buildings and structures on the lot as indicated below:
(if there are more than 3 existing structures, please provide this information for all additional structures on a separate sheet of paper and attach to this application.)

Structure 1: Type/Use _____ Ground Coverage _____ Total Floor Area _____

No. of Stories: _____ Height: _____

Attached Structures: (Deck, Etc.) Yes ___ NO ___ Ground Coverage (Footprint) _____

Structure 2: Type/Use _____ Ground Coverage _____ Total Floor Area _____

No. of Stories: _____ Height: _____

Attached Structures: (Deck, Etc.) Yes ___ NO ___ Ground Coverage (Footprint) _____

Structure 3: Type/Use _____ Ground Coverage _____ Total Floor Area _____

No. of Stories: _____ Height: _____

Attached Structures: (Deck, Etc.) Yes ___ NO ___ Ground Coverage (Footprint) _____

PROPOSED STRUCTURES:

The proposed buildings and structures on the lot as indicated below:

(if there are more than 3 proposed structures, please provide this information for all additional structures on a separate sheet of paper and attach to this application.)

Structure 1: Type/Use Multi-family dwelling Ground Coverage 3,280 sqft Total Floor Area 3,200 sqsf
No. of Stories: Height:
Attached Structures: (Deck, Etc.) Yes ☒ NO ☐ Ground Coverage(Footprint) 520 sqft (4 Decks)
Proposed Use (Cite Appropriate Paragraph #): Multi-family affordable housing
Description: Structure 1 is a 4-unit multi-family dwelling with a total of 8 bedrooms.
Type/Use: The intended use is to create a permanent and affordable housing opportunity.

Structure 2: Type/Use Same as Structure 1 Ground Coverage Total Floor Area
No. of Stories: Height:
Attached Structures: (Deck, Etc.) Yes ☐ NO ☐ Ground Coverage(Footprint)
Proposed Use (Cite Appropriate Paragraph #):
Description:
Type/Use:

Structure 3: Type/Use Ground Coverage Total Floor Area
No. of Stories: Height:
Attached Structures: (Deck, Etc.) Yes ☐ NO ☐ Ground Coverage(Footprint)
Proposed Use (Cite Appropriate Paragraph #):
Description:
Type/Use:

ADDITIONAL DATA

This application is accompanied by one or more of the following as required by the Zoning Regulations.

East Street Housing - 8 Unit

☒ Plan Drawing (entitled: Residential Development)

☒ Site Plan

☒ Application for Special Exception Use

☐ Application for Excavation and Grading

☐ Application for Certificate of Approval of Location

I hereby agree to conform to all requirements of the Laws of the State of Connecticut and the Ordinances and Zoning Regulations of the Town of Morris, and to notify the Zoning Officer and the Commission of any alteration in the plans for which this Zoning Permit is being sought.

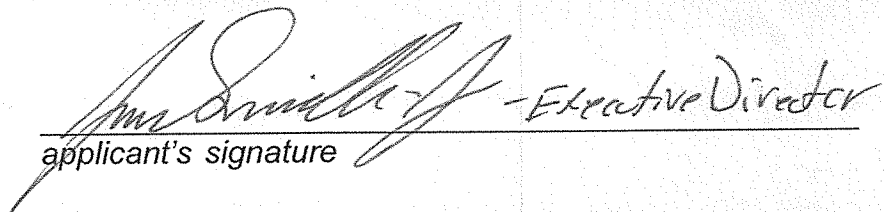
I furthermore agree the above described structure/use is to be located at the proper distance from all street lines as required by the Zoning Regulations or any other applicable local and state ordinances and regulations. It is also understood that the proposed structure/use, upon completion, will be used in compliance with the Zoning Regulations of the Town of Morris.

I hereby apply for Certificate of Use and Compliance for the use of the property as described in the above application. I also understand that the structure/use cannot be used or occupied until a Certificate of Occupancy has been issued by the Morris Building Official.

Furthermore, I hereby note that it is the responsibility of the applicant to notify the Zoning Officer and Commission and arrange an on-site inspection as soon as the foundation is poured for the site plan and placement verification. This notification must take place prior to any construction or framing activity on the foundation.

The undersigned states that he is aware of the applicable provisions of the Zoning Regulations of the Town of Morris, including but not limited to requirements pertaining to performance standards (sec. 61), signs (sec. 63), off-street parking and loading (sec. 62) and earth removal (sec. 64), that if the proposal is authorized under a special exception, site plan, or other action of the Zoning Commission or Zoning Board of Appeals he is aware of any applicable conditions, limitations and stipulations and that approval of this application or issuance of a certificate shall not be considered to constitute compliance with any other regulations, ordinance, or law nor relieve the undersigned from responsibility to obtain any permit thereunder.

11/7/23
date


applicant's signature

date

authorized agent for applicant

This application was received by the Zoning Office on 12-15-2023 by Jordan Adili.

This application was:

☐ approved
☐ denied

by the:

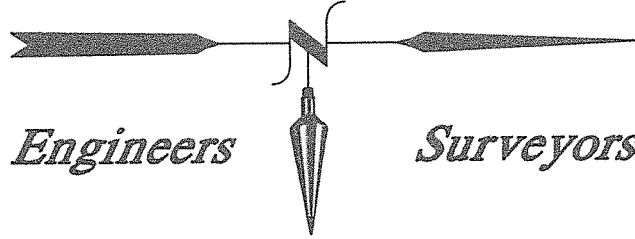
☐ Zoning Enforcement Officer
☐ Planning and Zoning Commission (Meeting Date: _____)

Explanation: _____

If your Zoning Permit application has been denied by the Zoning Enforcement Officer or the Zoning Commission, the Connecticut General Statutes provides you with the right to appeal the decision of the Zoning Office to the Morris Zoning Board of Appeals. You have thirty (30) days from the denial date to start the appeals process.

Hrica Associates LLC

Kenneth S. Hrica, PE,RLS
44 Maple View Trail
P.O. Box 1861
Litchfield, Connecticut 06759



860-567-2112 (business)
860-567-0491 (faximile)
e-mail:
hricaassociates@optonline.net

STORM WATER MANANGEMENT PLAN

DRAINAGE CALCULATIONS

&

SEDIMENT & EROSION CONTROL REPORT

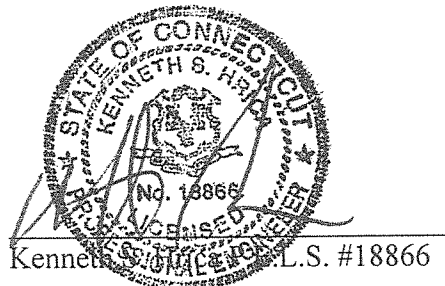
SHORT & LONG TERM MAINTENANCE FOR

STORMWATER QUALITY

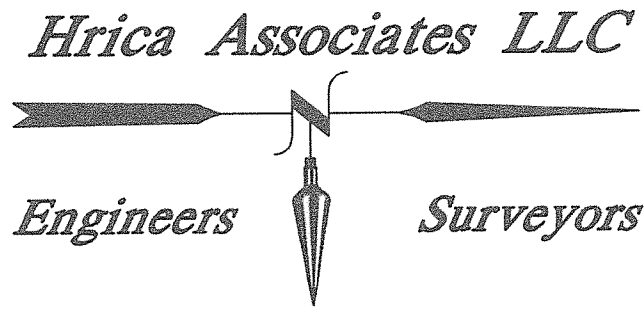
ELDRIDGE DRIVE
MORRIS, CONNECTICUT

PREPARED FOR:
MORRIS HOUSING AUTHORITY

DECEMBER 19, 2023



Kenneth S. Hrica, PE, RLS
44 Maple View Trail
P.O. Box 1861
Litchfield, Connecticut 06759



860-567-2112 (business)
860-567-0491 (faximile)
e-mail:
hricaassociates@optonline.net

**SEDIMENT & EROSION CONTROL REPORT
SHORT & LONG TERM MAINTENANCE FOR STORMWATER QUALITY**

MORRIS HOUSING AUTHORITY

EAST STREET HOUSING
103 East Street
Morris, Connecticut

During Construction – Sediment and Erosion Control Measures:

Silt Fence:

1. The silt fence shall be inspected for stability and operation prior to and after runoff producing events but in no case less than once per week. Repairs shall be made within one working day to maintain the practice as designed.
2. Sediments shall be removed when the sediments reach $\frac{1}{2}$ the height of the fence. Sediment is to be spread and seeded immediately. Silt fence to be reinstalled and replaced as necessary.
3. Silt fence shall be installed with a woven wire backing or orange construction fencing to maintain stability.
4. A log is to be kept and submitted monthly to the Town of Morris indicating inspections and repairs made. The measure shall be kept and maintained in place until removal is authorized by the Town of Morris.

Coir Logs / Woodchip Wattles:

1. Coir Logs / Woodchip Wattles shall be inspected for stability and operation prior to and after runoff producing events but in no case less than once per week. Repairs shall be made within one working day to maintain the practice as designed.
2. Sediment captured by the Coir Logs / Woodchip Wattles shall be removed when the sediment reaches 0.5 feet in depth. Sediment is to be spread on site and seeded immediately, or hauled to an approved, non- wetland site. New Coir Logs / Woodchip Wattles are to be installed if at any time during construction, the Coir Logs / Woodchip Wattles fiber membrane is torn or damaged.
3. Coir Logs / Woodchip Wattles shall be kept and maintained in place until the site is stabilized and removal is authorized by the Town of Morris.

Construction Entrance:

1. The construction entrance shall be inspected for stability and operation prior to and after runoff producing events but in no case less than once per week. Repairs shall be made within one working day to maintain the practice as designed.
2. The entrance shall be maintained in a condition that will prevent tracking of sediments on to the public right-of-way or streets. This may require periodic top dressing with additional aggregate.
3. All sediment tracked or spilled onto the roadway will be cleaned up and the roadway swept by the end of the working day.
4. If washing is required, it shall be done on an area stabilized with aggregate, which drain to an approved sediment-trapping device.
5. All sediment shall be prevented from entering storm drains, swales, or watercourses.
6. A log is to be kept and submitted to the Town of Morris indicated inspections and repairs made. The measure shall be kept and maintained in place until removal is authorized by the Town of Morris.

Pipe Inlets:

1. Pipe inlets are to be protected with staked geotextile silt fence installed in a "U" shape, approximately six feet from the pipe inlet in the direction of the incoming flow. Silt fence is to be embedded a minimum of six inches.
2. Sediment shall be cleared from silt fence when it reaches a maximum of $\frac{1}{2}$ the height of the fence.
3. The silt fence shall be inspected for stability and operation within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater, but in no case less than once per week. Repairs shall be made within one working day to maintain the practice as designed.
4. A log is to be kept and submitted monthly to the Town of Morris indicating inspections and repairs made. The measure shall be kept and maintained in place until removal is authorized by the Town of Morris.

Catch Basin / Lawn Drain Inlet Structures:

1. Catch basins are to be protected with staked geotextile silt fence on all four sides. Silt fence is to be embedded a minimum of six inches.
2. Sediment shall be cleared from silt fence when it reaches a maximum of $\frac{1}{2}$ the height of the fence.
3. Catch basin stumps are to be inspected weekly and sediment removed when it reaches a depth of twelve inches.
4. The silt fence shall be inspected for stability and operation within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater, but in no case less than once per week. Repairs shall be made within one working day to maintain the practice as designed.

5. A log is to be kept and submitted monthly to the Town of Morris indicating inspections and repairs made. The measure shall be kept and maintained in place until removal is authorized by the Town of Morris.

Water Treatment Wastewater Infiltration Units:

1. Water Treatment Wastewater Infiltration Units and the associated pop-up emitter overflow structure shall be installed prior to final grade stabilization.
2. Infiltration Unit Inspection Ports shall be checked after rainfall amounts of 0.5 inches or greater, and at weekly intervals during construction. Accumulation of silt and debris shall be removed from the chambers when it reaches a maximum of 0.5 feet.
3. A log is to be kept and submitted monthly to the Town of Morris Inland Wetland Officer indicating inspections and repairs made. The measure shall be kept and maintained in place until removal is authorized by the Town of Morris.

Rain Barrels:

4. Water Treatment Wastewater Infiltration Units and the associated stormwater outlet piping overflow shall be installed prior to installation of building roof gutters.
5. Rain Barrels shall be checked after rainfall amounts of 0.5 inches or greater, and at weekly intervals during construction. Accumulation of silt and debris shall be cleaned / flushed from the Barrel when it reaches a maximum of 0.17 feet (2").
6. A log is to be kept and submitted monthly to the Town of Morris Inland Wetland Officer indicating inspections and repairs made. The measure shall be kept and maintained in place until removal is authorized by the Town of Morris.

Slope Inspection:

1. All erosion control blankets shall be installed per the manufacturer's requirements.
2. Slopes shall be seeded immediately after rough grading. If rill erosion occurs, it will be repaired immediately, and erosion control blankets installed.
3. All seeded areas will be fertilized, reseeded as necessary, and mulched according to specifications to maintain a vigorous, dense vegetative cover. Rilling will be repaired and reseeded prior to final stabilization.

Water Quality Forebay Dam:

1. The forebay dam shall be inspected for stability and operation prior to and after runoff producing events but in no case less than once per week. Repairs shall be made within one working day to maintain the practice as designed.
2. Sediment shall be removed, and original volume restored when sediment accumulates to one half the design volume.
3. The forebay dam shall be inspected weekly to check for erosion, piping, and rock displacement before and after each runoff-producing event. Repairs are to be made immediately.

4. Structure is to be restored to its original condition prior to final stabilization of the detention pond.
5. Stones are to be replaced as needed to maintain the design cross section of the measure.

Long Term Maintenance of Stormwater Quality Structures:

Roads and Pavement:

1. Impervious surfaces shall be vacuum swept annually between April 1st and May 1st.
2. Grass shoulders shall be repaired in springtime if damaged by snow plowing.

Roof Drainage System:

1. The roof drainages system including Rain Barrels shall be cleaned of leaves and debris, inspected and repaired biannually (April and October) and as needed.

Storm Drainage System:

1. The storm drainage system shall be inspected monthly during the first year after construction of all phases.
2. Debris, leaves, and sediment are to be cleaned out when sediment reaches one half the design depth and at minimum, annually.

Open Channels and Swales:

1. Sediment shall be removed when twenty-five percent of the original volume has been exceeded and at minimum, annually.
2. Grass height of four inches to six inches shall be maintained.
3. Swales shall be inspected for erosion damage on a quarterly basis. All damage shall be repaired immediately with suitable organic growing medium, erosion control blankets and reseeded.

Water Quality Basins:

1. Water quality Basins provide additional water quality improvements to the stormwater after discharge from the vegetated swales. Maintenance of the basins will include removing by vacuum truck and/or hand shoveling of any visible accumulated sediment existing in the forebay of the basin. The main bay of the basin will have a stone bottom and planted embankments. The embankments will not require maintenance other than replacing any plantings that have not taken. The bottom of the basin will require biannual visual inspection for accumulation of foreign matter such as leaves, branches, grass clippings and trash. As specified in the erosion control plan temporary silt fences are to remain in place to protect the main bay of the basin until the site is fully vegetated.

- a. The basin shall be inspected monthly during the first year after construction of all phases.
 - b. Sediment and debris shall be removed from the basin and the weir area when six inches (0.5 feet) deep.
 - c. Vegetation shall be replaced, and area reseeded annually or after a storm event to maintain fifty percent plant coverage.
 - d. All berms and riprap outlets are to be inspected and repaired annually or if damaged by a storm event.
2. Outlet riprap shall be inspected for condition and repaired or replaced as needed.
 3. Minor erosion shall be repaired, and the area replanted in accordance with the plans. Should major erosion occur within the basin the inspector (representative of the Homeowners Association) shall notify the Town of Morris Inland Wetland Enforcement Officer. Repairs shall be performed as specified thereafter.
 4. The requirements for disposal of materials removed from the detention basins are similar to that of any other BMP. Disposal should be by a Connecticut licensed waste management company and discharged to a Connecticut DEP approved location.
 5. A log is to be kept and submitted Annually to the Town of Morris indicating inspections and repairs made. The measure shall be kept and maintained in place until removal is authorized by the Town of Morris.

Water Treatment Wastewater Infiltration Units:

1. Infiltration Unit Inspection Ports and the associated pop-up emitter overflow structure shall be checked at 6-month intervals. Accumulation of silt and debris shall be removed from the chambers when it reaches a maximum of 0.5 feet.
2. A log is to be kept and submitted Annually to the Town of Morris Inland Wetland Officer indicating inspections and repairs made. The measure shall be kept and maintained in place until removal is authorized by the Town of Morris.

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Hydrograph Return Period Recap

Hydroflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	Rational	----	-----	1.487	-----	1.757	2.019	2.427	2.795	3.238	POST DEVELOPEMENT (TO CCB)
4	Rational	----	-----	4.682	-----	5.531	6.356	7.640	8.798	10.19	POST DEVELOPEMENT (TO FOR
5	Rational	----	-----	0.213	-----	0.252	0.289	0.348	0.401	0.464	POST DEVELOPEMENT (TO CCB)
6	Rational	----	-----	0.208	-----	0.246	0.283	0.340	0.391	0.453	POST DEVELOPEMENT (OFF SIT
9	Reservoir(i)	4	-----	0.000	-----	0.000	0.017	0.042	0.093	0.314	FOREBAY AND POND
12	Combine	5, 6, 9,	-----	0.421	-----	0.498	0.572	0.688	0.792	0.918	TOTAL POST DEVELOPEMENT
Proj. file: DRAINAGE CALCS 12-19-23.gpw										Wednesday, 12 / 20 / 2023	

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	3.238	1	5	972	-----	-----	-----	POST DEVELOPEMENT (TO CCB)
4	Rational	10.19	1	5	3,058	-----	-----	-----	POST DEVELOPEMENT (TO FOR
5	Rational	0.464	1	5	139	-----	-----	-----	POST DEVELOPEMENT (TO CCB)
6	Rational	0.453	1	5	136	-----	-----	-----	POST DEVELOPEMENT (OFF SIT
9	Reservoir(i)	0.314	1	27	1,305	4	104.19	3,267	FOREBAY AND POND
12	Combine	0.918	1	5	1,580	5, 6, 9,	-----	-----	TOTAL POST DEVELOPEMENT
DRAINAGE CALCS 12-19-23.gpw					Return Period: 100 Year			Wednesday, 12 / 20 / 2023	

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

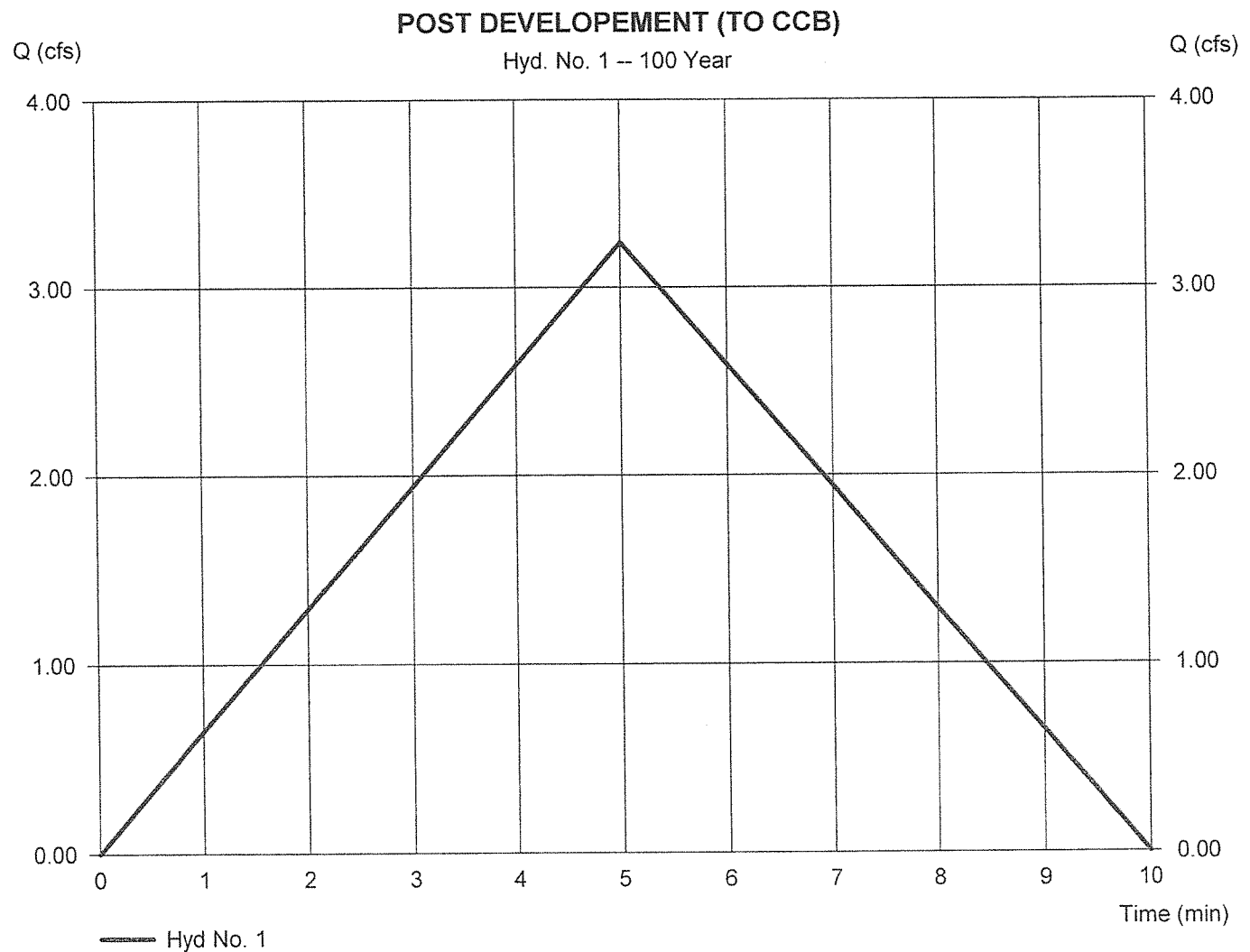
Wednesday, 12 / 20 / 2023

Hyd. No. 1

POST DEVELOPEMENT (TO CCB)

Hydrograph type	= Rational	Peak discharge	= 3.238 cfs
Storm frequency	= 100 yrs	Time to peak	= 5 min
Time interval	= 1 min	Hyd. volume	= 972 cuft
Drainage area	= 2.200 ac	Runoff coeff.	= 0.15*
Intensity	= 9.814 in/hr	Tc by User	= 5.00 min
IDF Curve	= litch-co.IDF	Asc/Rec limb fact	= 1/1

* Composite (Area/C) = [(2.300 x 0.15)] / 2.200



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

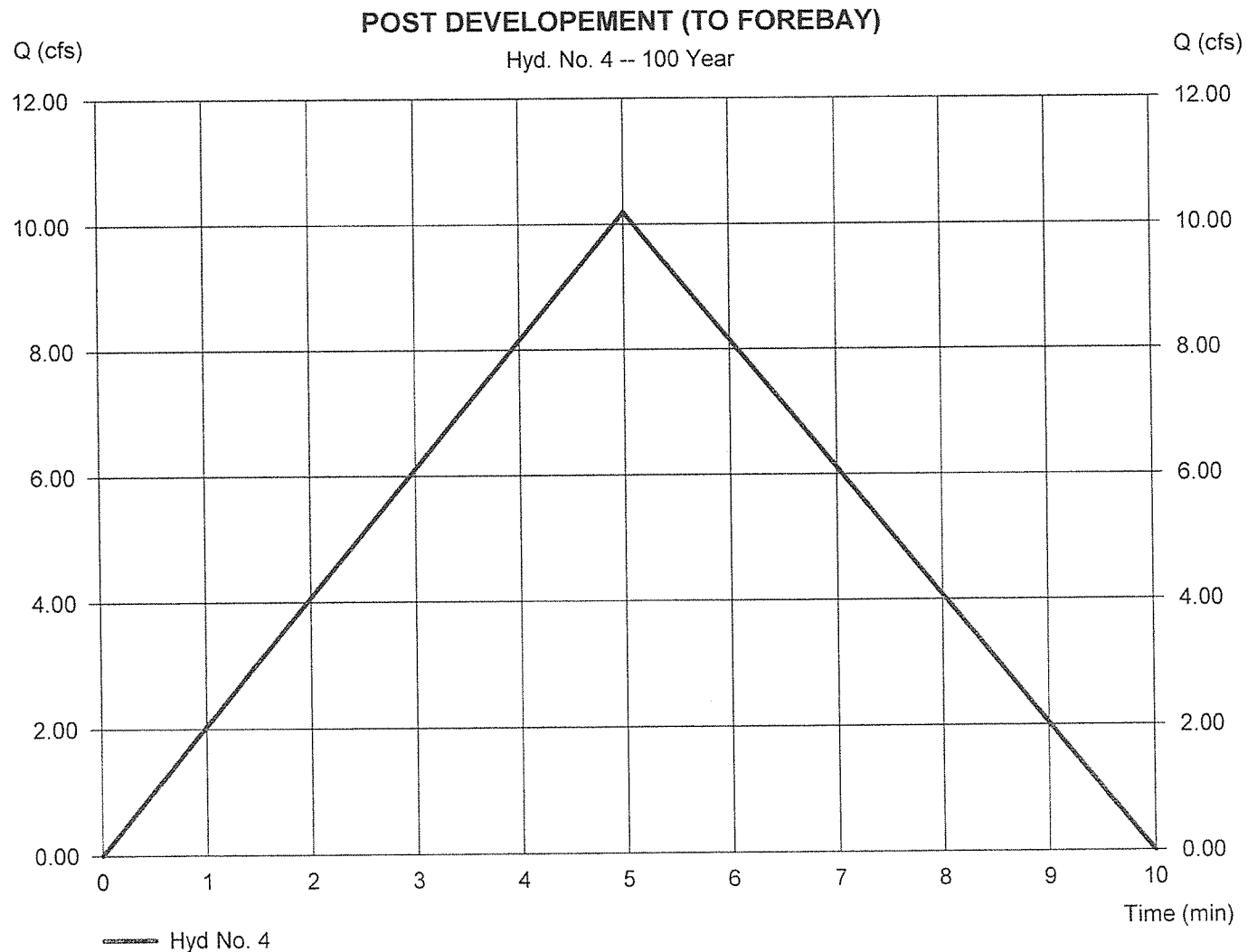
Wednesday, 12 / 20 / 2023

Hyd. No. 4

POST DEVELOPEMENT (TO FOREBAY)

Hydrograph type	= Rational	Peak discharge	= 10.19 cfs
Storm frequency	= 100 yrs	Time to peak	= 5 min
Time interval	= 1 min	Hyd. volume	= 3,058 cuft
Drainage area	= 2.120 ac	Runoff coeff.	= 0.49*
Intensity	= 9.814 in/hr	Tc by User	= 5.00 min
IDF Curve	= litch-co.IDF	Asc/Rec limb fact	= 1/1

* Composite (Area/C) = $[(1.460 \times 0.30) + (0.660 \times 0.90)] / 2.120$



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

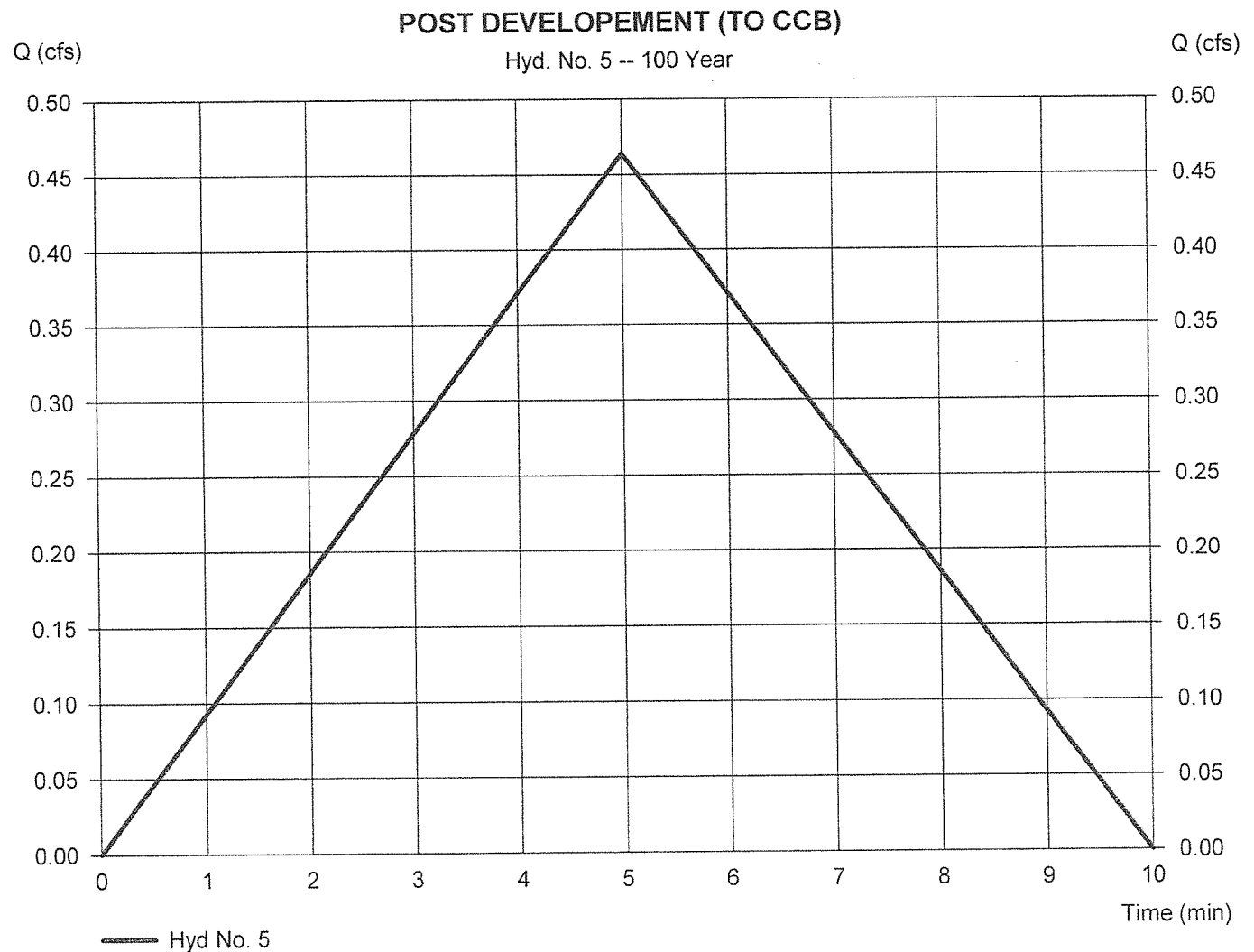
Wednesday, 12 / 20 / 2023

Hyd. No. 5

POST DEVELOPEMENT (TO CCB)

Hydrograph type	= Rational	Peak discharge	= 0.464 cfs
Storm frequency	= 100 yrs	Time to peak	= 5 min
Time interval	= 1 min	Hyd. volume	= 139 cuft
Drainage area	= 0.110 ac	Runoff coeff.	= 0.43*
Intensity	= 9.814 in/hr	Tc by User	= 5.00 min
IDF Curve	= litch-co.IDF	Asc/Rec limb fact	= 1/1

* Composite (Area/C) = $[(0.030 \times 0.90) + (0.080 \times 0.25)] / 0.110$



Hydrograph Report

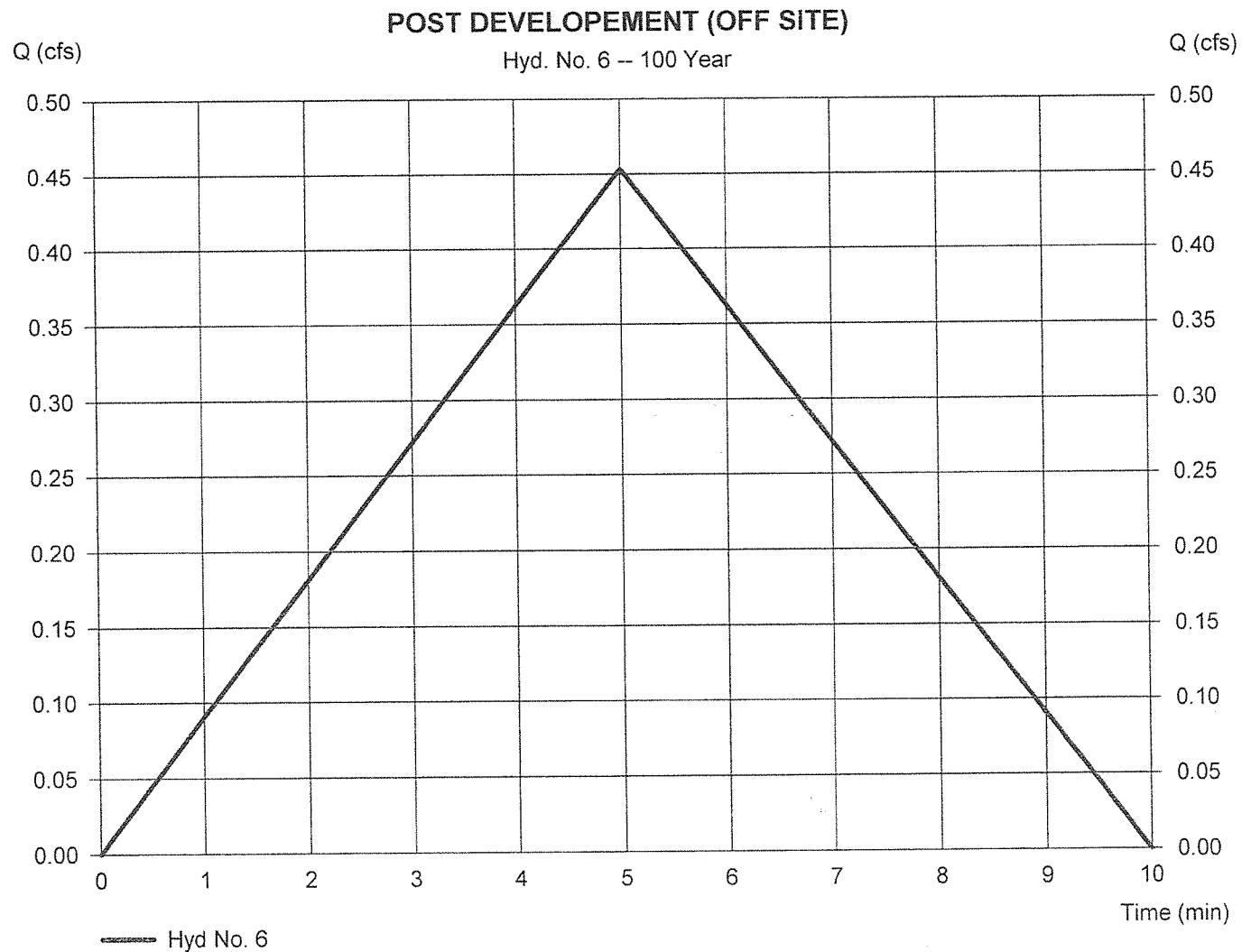
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Wednesday, 12 / 20 / 2023

Hyd. No. 6

POST DEVELOPEMENT (OFF SITE)

Hydrograph type	= Rational	Peak discharge	= 0.453 cfs
Storm frequency	= 100 yrs	Time to peak	= 5 min
Time interval	= 1 min	Hyd. volume	= 136 cuft
Drainage area	= 0.154 ac	Runoff coeff.	= 0.3
Intensity	= 9.814 in/hr	Tc by User	= 5.00 min
IDF Curve	= litch-co.IDF	Asc/Rec limb fact	= 1/1



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

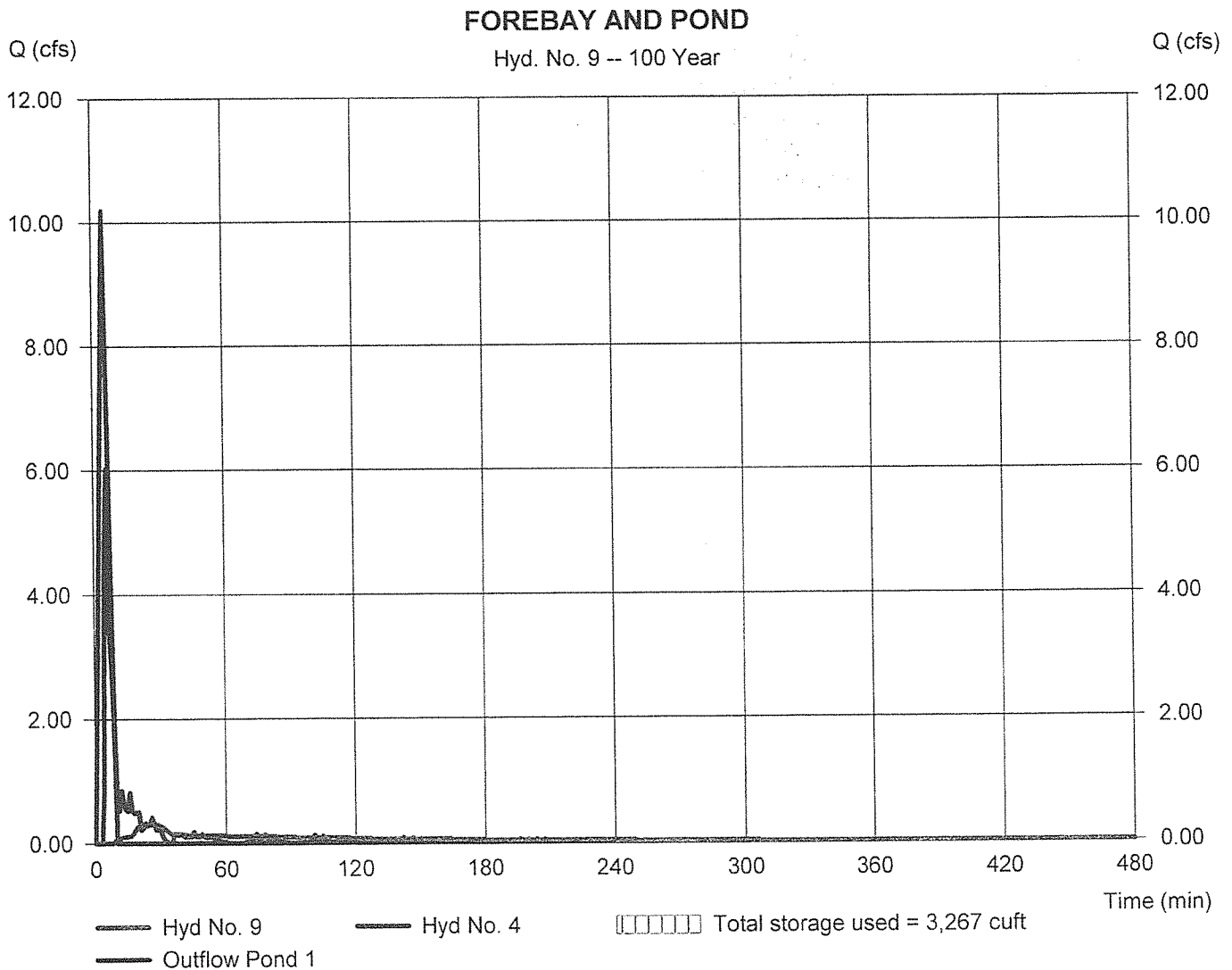
Wednesday, 12 / 20 / 2023

Hyd. No. 9

FOREBAY AND POND

Hydrograph type	= Reservoir (Interconnected)	Peak discharge	= 0.314 cfs
Storm frequency	= 100 yrs	Time to peak	= 27 min
Time interval	= 1 min	Hyd. volume	= 1,305 cuft
Upper Pond	= FOREBAY	Lower Pond	= POND
Inflow hyd.	= 4 - POST DEVELOPEMENT (10-FOREBAY)	Outflow hyd.	= None
Max. Elevation	= 104.19 ft	Max. Elevation	= 104.16 ft
Max. Storage	= 1,781 cuft	Max. Storage	= 1,486 cuft

Interconnected Pond Routing. Storage Indication method used.



Hydrograph Report

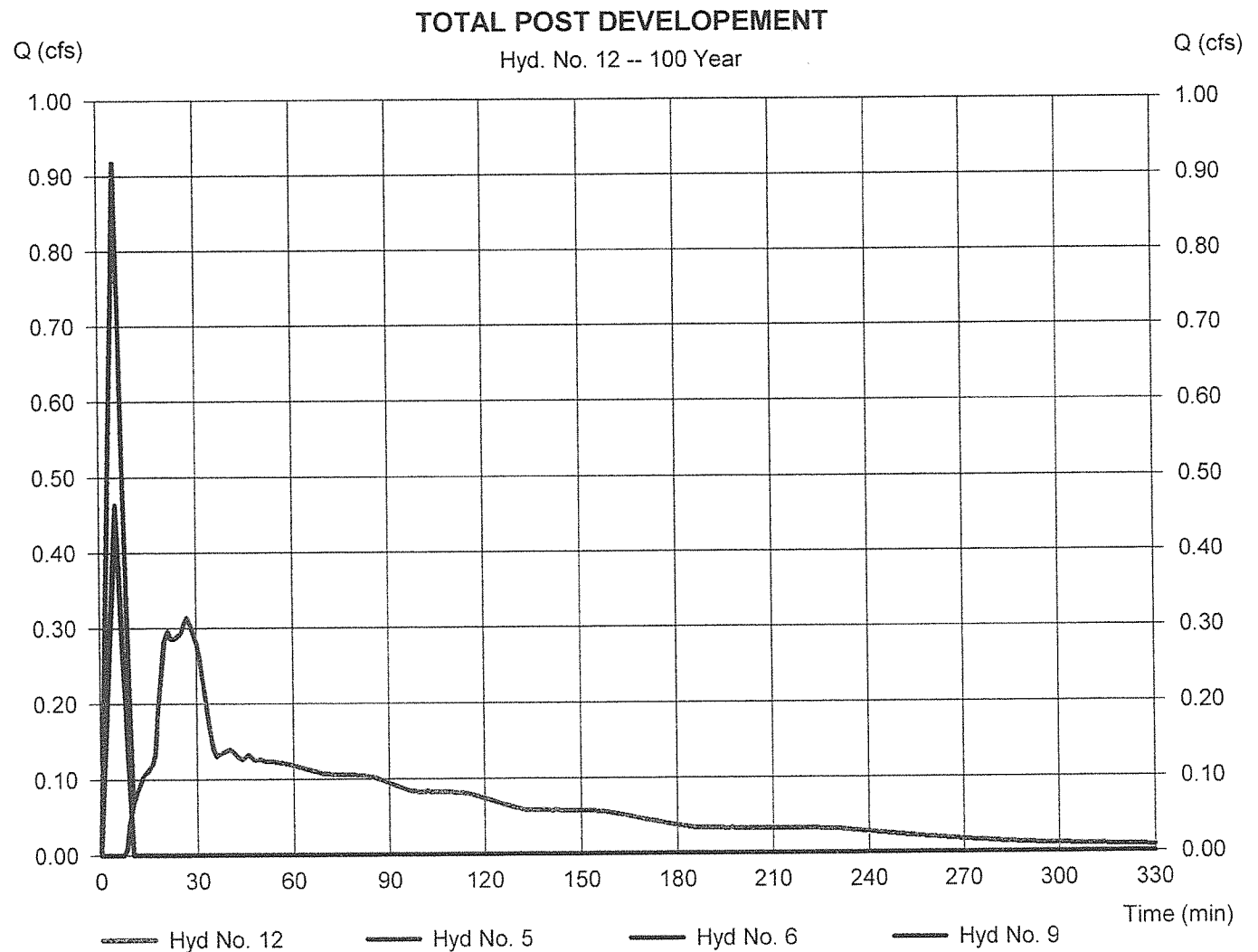
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Wednesday, 12 / 20 / 2023

Hyd. No. 12

TOTAL POST DEVELOPEMENT

Hydrograph type	= Combine	Peak discharge	= 0.918 cfs
Storm frequency	= 100 yrs	Time to peak	= 5 min
Time interval	= 1 min	Hyd. volume	= 1,580 cuft
Inflow hyds.	= 5, 6, 9	Contrib. drain. area	= 0.264 ac



WATER QUALITY VOLUME ANALYSIS

PROJECT: East Street Housing
PROJ. #: 23-0891
LOCATION: 103 East Street
Morris, Connecticut

$$WQV = \frac{"1" (R) (A)}{12}$$

R = VOLUMETRIC RUNOFF COEFFICIENT
= 0.05 + 0.009(I)

I = PERCENT IMPERVIOUS COVER
A = CONTRIBUTING AREA IN ACRES

BASIN IDENTIFICATION: WQ Forebay

SITE AREA (ACRES): 2.300
IMPERVIOUS AREA: 0.497

$$R = \underline{0.2445}$$

$$I = \underline{21.609}$$

WATER QUALITY VOLUME (WQV) =	0.0469	AC.-FT.
FOREBAY WQV REQUIRED (10%) =	0.0047	AC.-FT.

DEPTH OF POOL ft.: 1.5
DEPTH OF STORAGE PROVIDED ft.: 0.5
AVAILABLE STORAGE VOL. cu.ft.: 655

(0.5' SEDIMENT STORAGE)

WATER QUALITY VOLUME PROVIDED =	0.0150	AC.-FT.
---------------------------------	--------	---------

32.1 %

WATER QUALITY VOLUME ANALYSIS

PROJECT: East Street Housing
PROJ. #: 23-0891
LOCATION: 103 East Street
Morris, Connecticut

$$WQV = \frac{"1" (R) (A)}{12}$$

R = VOLUMETRIC RUNOFF COEFFICIENT
= $0.05 + 0.009(I)$
I = PERCENT IMPERVIOUS COVER
A = CONTRIBUTING AREA IN ACRES

BASIN IDENTIFICATION: WQ Basin

SITE AREA (ACRES): 2.300
IMPERVIOUS AREA: 0.497

$$R = \underline{0.2445}$$
$$I = \underline{21.609}$$

WATER QUALITY VOLUME (WQV) =	0.0469	AC.-FT.
FOREBAY WQV REQUIRED (10%) =	0.0047	AC.-FT.

DEPTH OF POOL ft.: 1.5
DEPTH OF STORAGE PROVIDED ft.: 1.5 (1.5' SEDIMENT STORAGE)
AVAILABLE STORAGE VOL. cu.ft.: 915

WATER QUALITY VOLUME PROVIDED =	0.0210	AC.-FT.
---------------------------------	--------	---------

44.8 %

EAST STREET HOUSING

8 UNIT RESIDENTIAL DEVELOPMENT



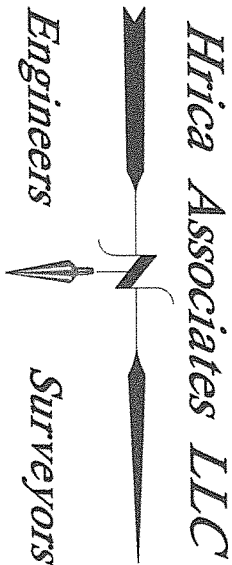
PREPARED FOR

MORRIS HOUSING AUTHORITY

103 EAST STREET
MORRIS, CONNECTICUT

OF DRAWINGS

- TITLE**
EXISTING CONDITIONS
SITE PLAN
DRAINAGE PLAN
SEPTIC SYSTEM DESIGN PLAN
CONSTRUCTION NOTES & DETAILS
EROSION & SEDIMENT CONTROL PLAN
LANDSCAPING PLAN
PHOTOMETRIC LIGHTING PLAN



Kenneth S. Hrica, P.E., R.L.S.
44 Maple View Trail
P.O. Box 1887
Litchfield, Connecticut 06759
860-567-2112 (business)
860-567-0491 (residential)
e-mail: hricadassociates@optonline.net


JUNE 23, 2023
Date

EAST STREET
HOUSING

PREPARED FOR
MORRIS HOUSING AUTHORITY
103 EAST STREET
MORRIS, CONNECTICUT



LEGEND

[illegible][illegible]

Engineers
S. J. P. & S. J. P.

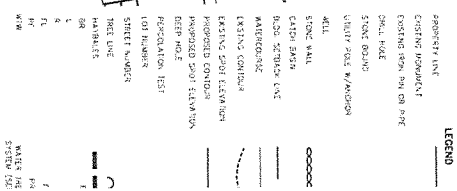
KINGIN S. HBCA P.E. & S.
NOT VALID WITHOUT ORIGINAL S&A:

EXISTING CONDITIONS

EAST STREET HOUSING

103 EAST STREET
MORRIS, CONNECTICUT

DATE: 12/6/72 BY: E&S ENGINEERING
SCALE: 1"=4'-0" HORIZ.
DRAWING NO.: 2200991 DATE: 12/6/72
PROJECT #.: 33-0081 SHEET: 00A



DATE	01/17/2013	WPT
DRAWING	210001	00044
PROJECT	21-0091	ENCLOSURE



P. 292

100

600

1000

ATTN:

Figure 1

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1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 26

EXPANSION OF PRODUCTION OF

LAUREN: REMIND

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ABSTRACT

HOUSE

03 EAST
RIS CON

2

1998

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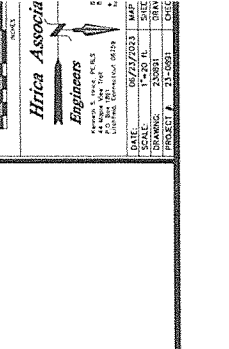
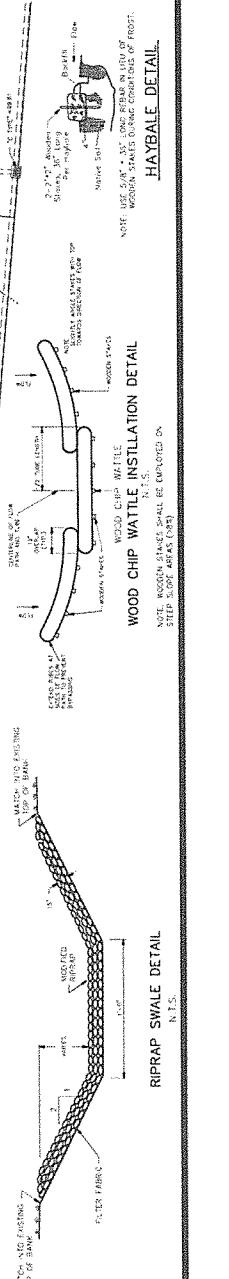
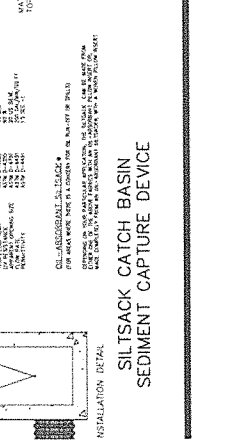
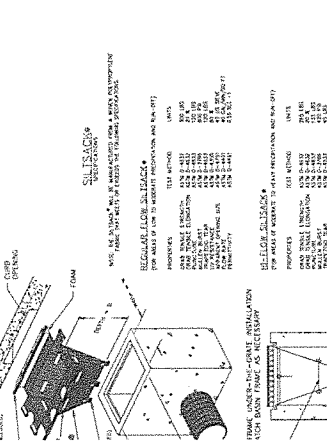
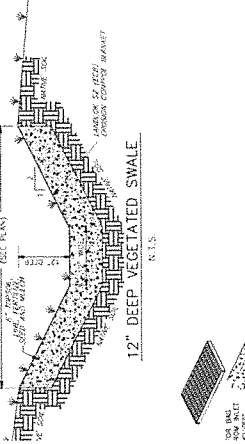
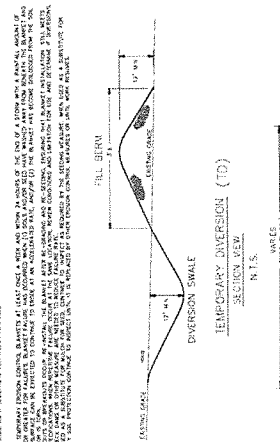
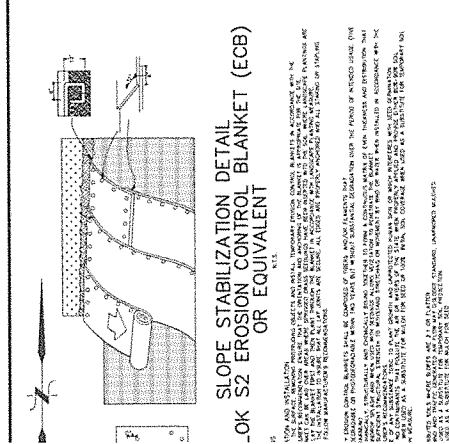
06/23/2023	-20 ft	
06/23/2023		

1650-5

EX. PAVEMENT

LEGEND

- PROPERTY LINE
- EXISTING MONUMENT
- EXISTING IRON PIN OR PIPE
- DRILL HOLE
- STAKE 00250
- UTILITY TOLL WALDOCH
- CELL
- STONE WALL
- CATCH BASIN
- GRASS SLOPE LINE
- INTERSECT
- EXISTING CONDUIT
- EXISTING SPOT ELEVATION
- PROPOSED CONDUIT
- PROPOSED SPOT ELEVATION
- DEEP HOLE
- REGISTRATION TEST
- LOT NUMBER
- STREET NUMBER
- TRAIL LINE
- ATTRIBUTES
- BP
- R
- F
- PT



EROSION & SI CONTROL EAST STR HOUSIN 103 EAST ST MORRIS, CONNE

Hirca Assoc Engineers

DATE: 06/03/2013
SCALE: 1"=20' N.
DRAWING: 230001
PROJECT: 23-0001

17/4/73 EROSION CONTROL BLANKET
18/4/73 EROSION CONTROL BLANKET
19/4/73 EROSION CONTROL BLANKET
20/4/73 EROSION CONTROL BLANKET
21/4/73 EROSION CONTROL BLANKET

TO) TOPSOILING

[illegible]

THE JOURNAL OF THE

[illegible]

CASE (F) TOXIC SUBSTANCES AND

[illegible]

(RR) RIP RAP

[illegible]

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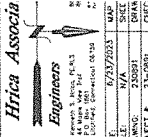
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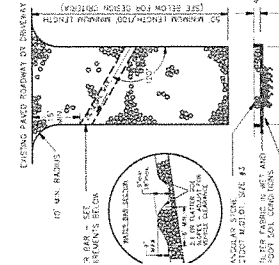
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EROSION & SEDIMENTATION

**EAST STR
HOUSIN**
103 EAST ST
MORRIS, CONNE



ANTI-TRACKING PAD
CONSTRUCTION ENTRANCE



- PROPOSED GROUND COVER
- PROPOSED LOW SHRUB/
COLUMNAR PLANTING
- PROPOSED MED/LARGE
SHRUB OR SMALL
ORNAMENTAL TREE
- PROPOSED ORNAMENTAL /
MULTI-STEM TREE

2018-09-18 10:10:10

DATE	SYMBOL	QUANTITY
1970	10	10
1971	10	10
1972	10	10

ELDRIDGE DRIVE

LANDSCAPING

SHEET: 06

STB
10

EAST ST.
HOUSE103 EAST ST
MORRIS, CONNECTICUT

Index

References

Luminaire Schedule							
Symbol	Qty	Luminaire Lumens	Luminaire Watts	LLF	BUC Rating	Mounting Height	Description
②	4	3600	33	0.960	B1-U0-G1	14.4	NLS Lighting DNR-175-35-30K-T1-NV-477-BLK-FSP-20 RSP-12-AR-11G-9BC-7R-BLK-54-0-ARCC 12FT POLE
③	12	3135	33	0.990	B1-U0-G1	14.4	NLS Lighting DNR-175-35-30K-T1-NV-477-BLK-FSP-20 RSP-12-AR-11G-9BC-7R-BLK-54-0-ARCC 12FT POLE
④	88	1076	10	0.900	B0-U0-G1	3.6	NLS Lighting TBA-12-T1-16L-175-30K-T1-NV-AB-BLK

Greg Loda
Lighting Affiliates
1208 Cromwell Ave
Rocky Hill, CT 06067
website: www.lightingaffiliates.com
Voice Number: (860) 721-1171 x 211
Email: gloida@lightingaffiliates.com

