

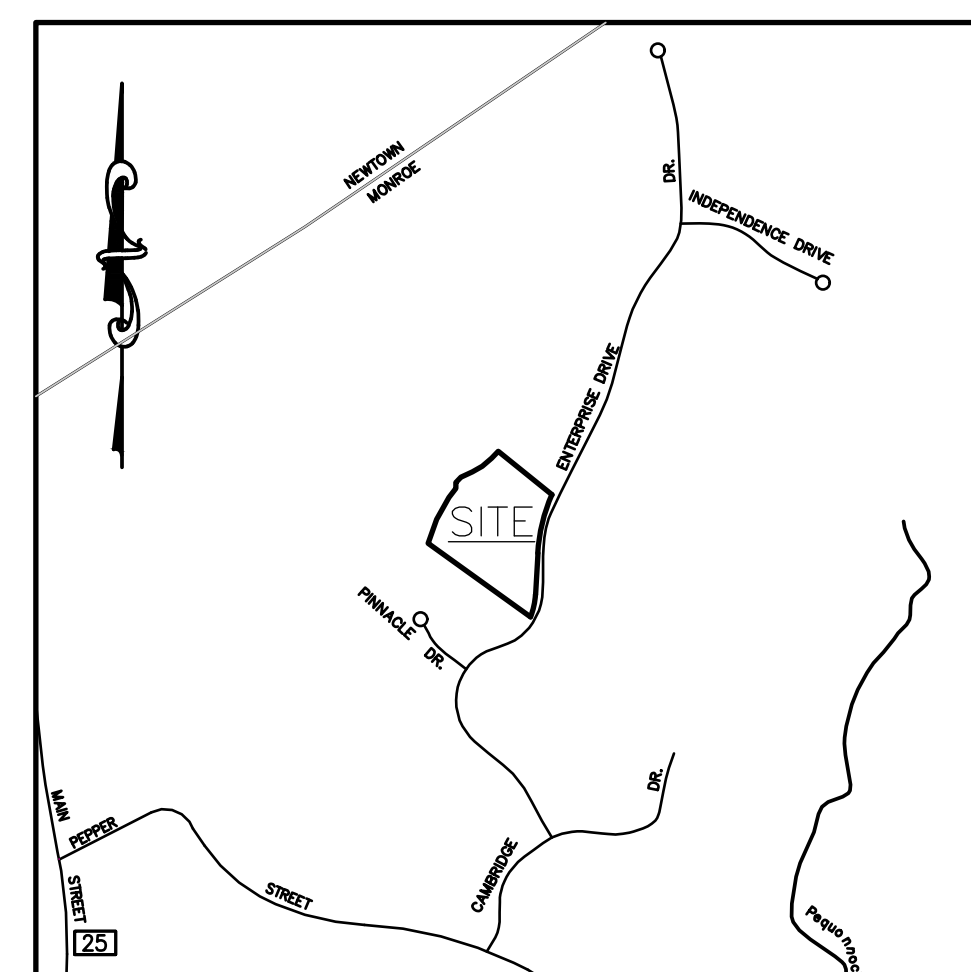
**J. EDWARDS & ASSOCIATES LLC**  
ENGINEERING • SURVEYING • SITE PLANNING

227 Stepney Road Easton, CT 06612  
Phone: 203.268.4205 Fax: 203.268.5604  
www.jedwardsassoc.com

# SITE IMPROVEMENTS

## MONROE, CONNECTICUT

### 67 ENTERPRISE DRIVE



LOCATION MAP

SCALE: 1"=1000'

#### CONTENTS:

##### TITLE SHEET

- EX-1 EXISTING CONDITIONS PLAN
- S-1 SITE PLAN
- S-2 CONSTRUCTION DETAILS
- EC-1 EROSION CONTROL PLAN
- LP LIGHTING PLAN
- L-1 LANDSCAPE & WETLAND MITIGATION PLAN
- L-2 PLANTING AND SITE DETAILS

##### REVISIONS

#	DATE	DESCRIPTION
1	02.04.22	ENG.&IWC COM.
2	02.28.22	ENG.COM.
3	05.01.22	PZC COM.
4	05.11.22	ENG. COM.

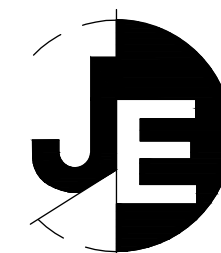
DATE: 12-13-21  
 PROJECT #: 2873  
 DRAWING FILE: SITE  
 DRAWN BY: LE/JE/IE  
 SCALE:

TITLE

SHEET NUMBER

BML TOOL, INC.  
67 ENTERPRISE DRIVE  
MONROE, CONNECTICUT

Prepared By:



J. EDWARDS & ASSOCIATES, LLC  
Engineering and Surveying  
227 Stepney Road  
Easton, CT. 06612  
(203)-268-4205  
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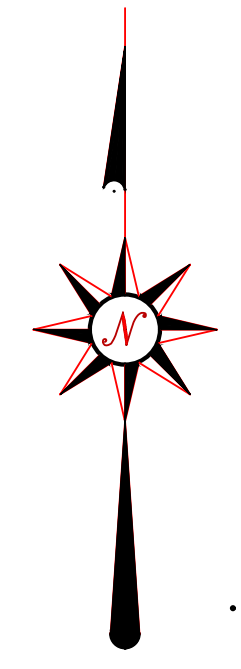
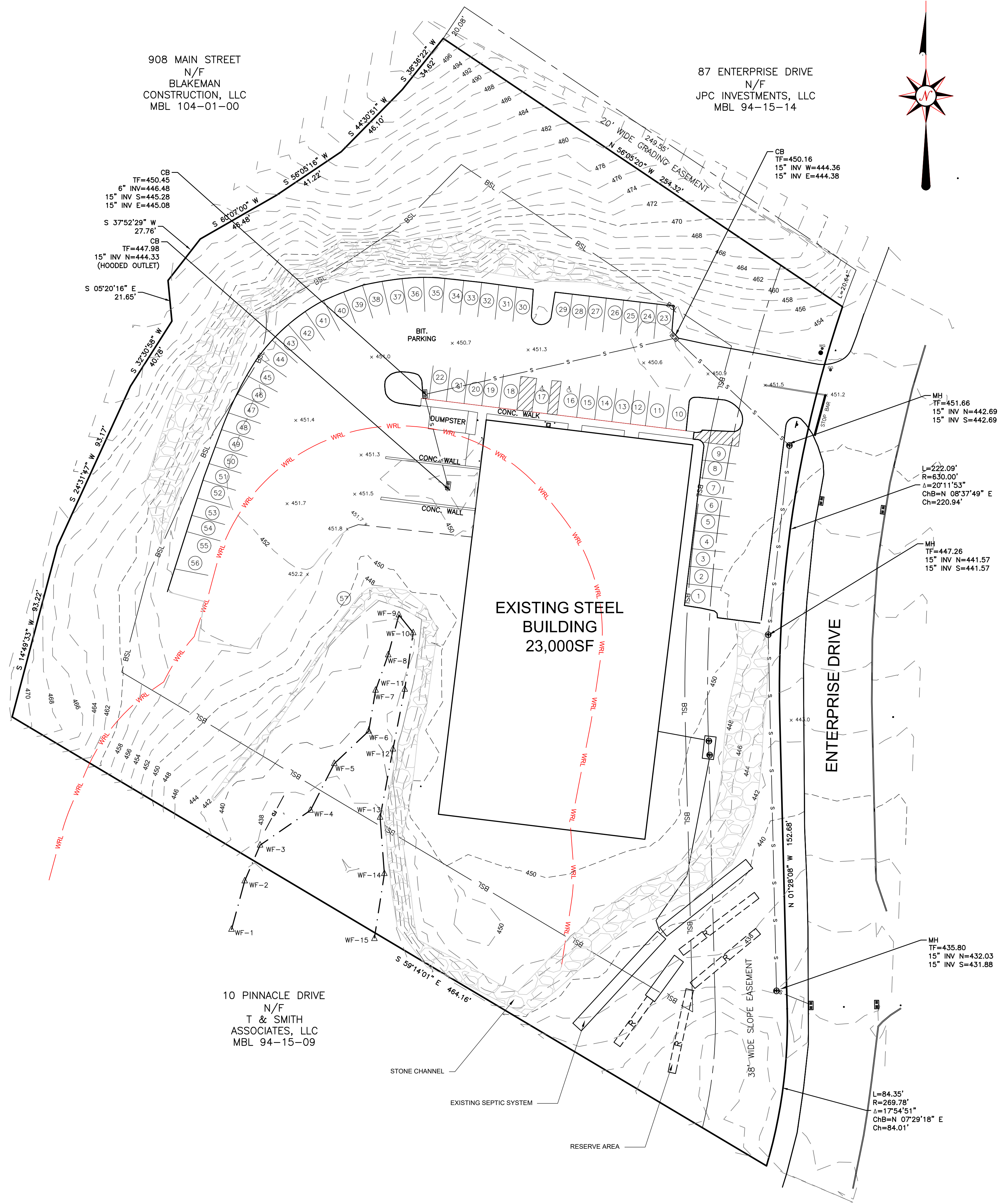
NOTES:

- THIS SURVEY (OR MAP) HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THRU 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS AN IMPROVEMENT LOCATION SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND VERTICAL ACCURACY CLASS V-2 AND INTENDED TO BE USED FOR REGULATORY APPROVAL.
- REFERENCE MAP ENTITLED: "IMPROVEMENT LOCATION SURVEY - RECORD. PREPARED FOR BML TOOL, INC. 67 ENTERPRISE DRIVE, MONROE, CT." SCALE 1"=30', DATED JANUARY 12, 2010. PREPARED BY DAVID A. HUGHES, PROFESSIONAL ENGINEER & LAND SURVEYOR.
- PLAN PREPARED FOR OWNER.
- LOT CORNER MARKERS DEPICTED HEREON WERE FOUND AND/OR SET DURING COMPLETION OF THIS SURVEY. ALL CORNER MARKERS FOR THIS LOT ARE TO BE PLACED AS PART OF SUBDIVISION IMPROVEMENTS AND HAVE BEEN BONDED TO THE TOWN.
- BEARINGS BASED ON THE MAP REFERENCED IN NOTE 2 ABOVE.
- LOCATION OF UNDERGROUND UTILITIES DEPICTED HEREON ARE APPROXIMATE.
- CERTIFICATION OF THIS MAP APPLIES TO CONDITIONS AS OF THE ORIGINAL DATE OR REVISED DATE DEPICTED HEREON. EXISTING CONDITIONS ON THIS PROPERTY MAY HAVE CHANGED SINCE THAT DATE AND AN UPDATED SURVEY IS RECOMMENDED TO ACCURATELY DEPICT THE CURRENT CONDITIONS.
- ADDITIONAL IMPROVEMENTS AND TOPOGRAPHIC INFORMATION BASED ON A FIELD SURVEY PERFORMED BY J. EDWARDS & ASSOC., LLC.
- VERTICAL DATUM AND CONTOURS BASED ON NGVD 88.
- WETLANDS SHOWN ON THIS MAP WERE DELINEATED BY STEVEN DANZER, PhD, SOIL SCIENTIST AND FIELD LOCATED BY J. EDWARDS & ASSOCIATES, LLC.
- PROPERTY IS IDENTIFIED AS MAP-BLOCK-LOT 094-15-12 AND IS LOCATED IN ZONING DISTRICT I-2.

908 MAIN STREET  
N/F  
BLAKEMAN  
CONSTRUCTION, LLC  
MBL 104-01-00

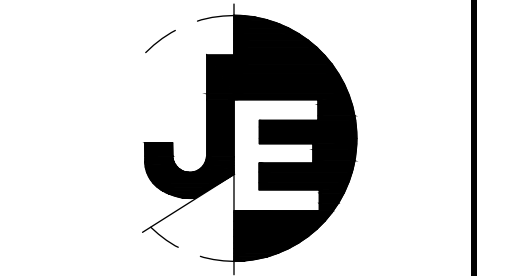
87 ENTERPRISE DRIVE  
N/F  
JPC INVESTMENTS, LLC  
MBL 94-15-14

10 PINNACLE DRIVE  
N/F  
T & SMITH  
ASSOCIATES, LLC  
MBL 94-15-09



OFF-STREET PARKING & LOADING COMPLIANCE			
ZONE: INDUSTRIAL DISTRICT 2 I-2			
USE	SIZE GFA	ZONING STANDARD	REQUIRED SPACES
OFF STREET PARKING			
BUILDING 1: MANUFACTURING	28000 SF	1/600SF	47
		TOTAL REQUIRED PARKING SPACES	47
		TOTAL PROPOSED PARKING SPACES	57

ZONING COMPLIANCE TABLE		
ZONE: INDUSTRIAL DISTRICT 2 I-2		
ZONING REQUIREMENT	ZONING STANDARD	EXISTING CONDITIONS
MINIMUM LOT AREA	3 ACRES	3.61 ACRES
MINIMUM LOT FRONTAGE	200 FEET	459.12'
MINIMUM SQUARE	150 FEET	150 FEET
MINIMUM YARD		
BUILDING FRONT	50 FEET	56.5
SIDE	25 FEET	71.2
REAR	25 FEET	160.1
OUTSIDE STORAGE AREA SIDE	25 FEET	
BUILDING HEIGHT - STORIES/FEET	3/40	1/25'±
BUILDING COVERAGE	25% MAX.	14.7% ±



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BML TOOL, INC.  
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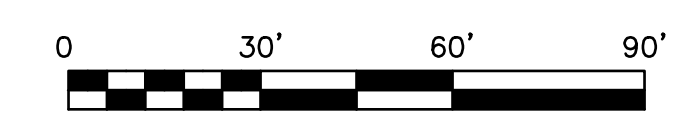
REVISIONS		
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1	02.04.22	ENG.&IWC COM.
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3	05.01.22	PZC COM.
4	05.11.22	ENG. COM.

DATE: 12-13-21  
PROJECT #: 2873  
DRAWING FILE: SITE  
DRAWN BY: LE/JE/JE  
SCALE: 1"=30'

TITLE  
**EXISTING CONDITIONS SURVEY**

SHEET NUMBER

**EX-1**



OFF-STREET PARKING & LOADING COMPLIANCE			
ZONE: INDUSTRIAL DISTRICT 2 I-2			
USE	SIZE GFA	ZONING STANDARD	REQUIRED SPACES
OFF STREET PARKING			
BUILDING 1: MANUFACTURING	28000 SF	1/600SF	47
BUILDING 1: WAREHOUSE	4000 SF	1/1000SF	4
BUILDING 2: WAREHOUSE	6000 SF	1/1000SF	6
TOTAL REQUIRED PARKING SPACES			57
TOTAL PROPOSED PARKING SPACES			57

ZONING COMPLIANCE TABLE			
ZONE: INDUSTRIAL DISTRICT 2 I-2			
ZONING REQUIREMENT	ZONING STANDARD	EXISTING CONDITIONS	PROPOSED CONDITIONS
MINIMUM LOT AREA	3 ACRES	3.61 ACRES	3.61 ACRES
MINIMUM LOT FRONTAGE	200 FEET	459.12'	459.12'
MINIMUM SQUARE	150 FEET	150 FEET	150 FEET
MINIMUM YARD			
BUILDING FRONT	50 FEET	56.5	94.9'
BUILDING REAR	25 FEET	71.2	50.0'
BUILDING SIDE	25 FEET	160.1	50.1
OUTSIDE STORAGE AREA	25 FEET		
BUILDING HEIGHT - STORIES/FEET	3/40	1/25±	1/13±
BUILDING COVERAGE	25% MAX.	14.7% ±	18.6%

CL TYPE CATCHBASIN  
TF=451.4  
5" TO DETENTION =448.0  
6" ROOF DRAIN =448.1  
12" OUTLET(HOODED) INV =446.5  
CONTROL OUTLET TO BE HOODED

STORM DETENTION SYSTEM  
TO COLLECT ALL RUNOFF  
FROM ROOF OF NEW BUILDING  
42 UNITS 4'X2'X8" CONCRETE GALLERIES  
WITH H-20 LOAD RATING  
SET IN 20'X60' STONE BED  
BOTTOM UNITS =447.2  
6" CONTROL OUTLET RESTRICTED TO 5" INV =448.0  
(TEST PIT TO BE DUG PRIOR TO INSTALLATION  
TO VERIFY RECEIVING SOILS)

RE-STRIPE SPACES TO  
CREATE ONE ADDITIONAL  
HANDICAP PARKING SPACE.

CUT AREA TO BE SLOPED AT 1 TO 1 WITH  
WITH RIP RAP UNLESS  
STABLE ROCK FACE CAN BE MAINTAINED

PROPOSED  
60'X100' STORAGE BUILDING  
FF=452.5  
NO INTERNAL PLUMBING  
HVAC TO BE WALL  
MOUNTED

RE-CON BLOCK RETAINING WALL  
WF 48" FENCE ALONG TOP  
TOP WALL =452.0  
BOTTOM WALL TO FOLLOW EXISTING GRADE  
RANGE FROM 438.0 TO 444.0'

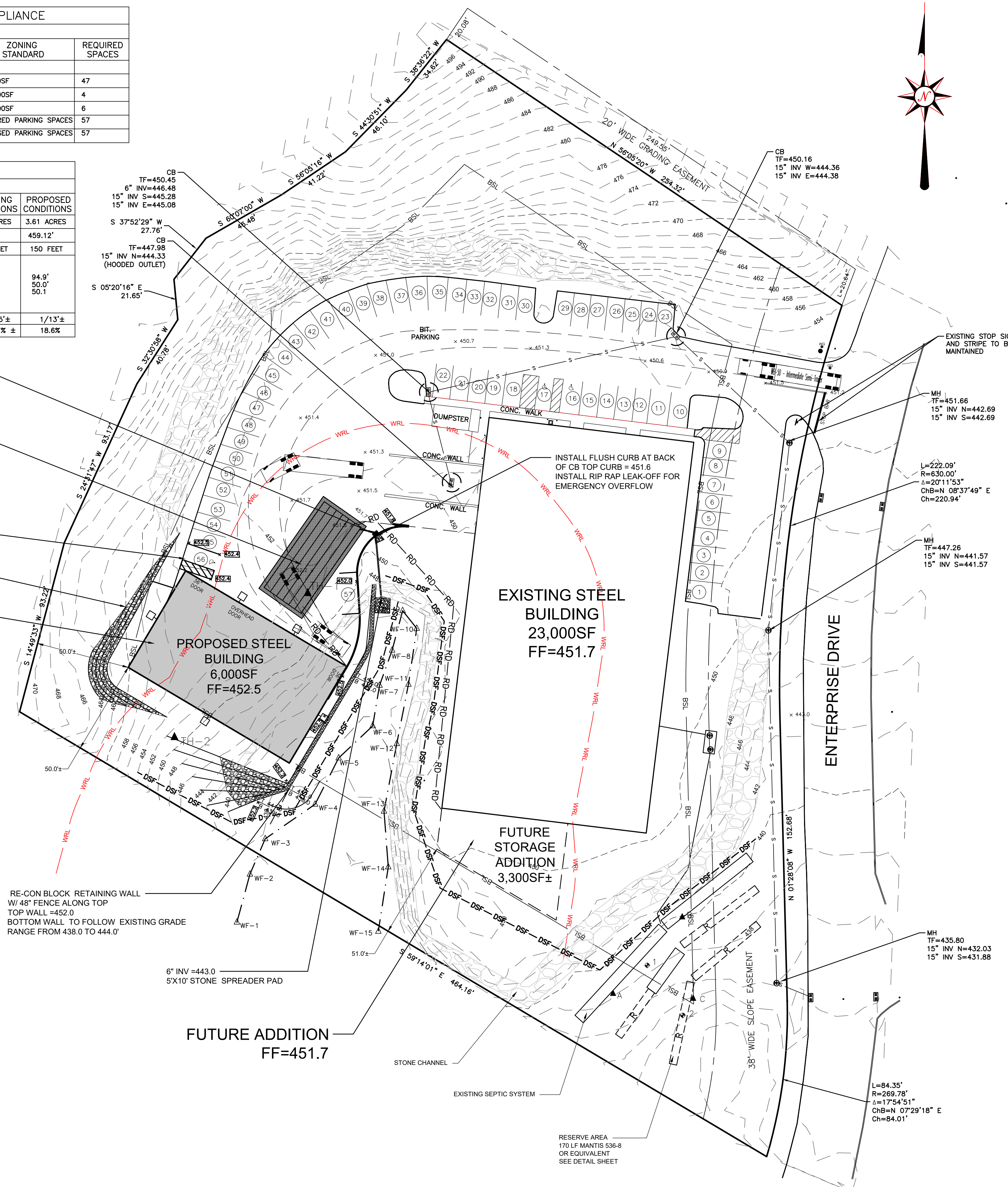
6" INV =443.0  
5'X10' STONE SPREADER PAD

FUTURE ADDITION  
FF=451.7

EXISTING STEEL  
BUILDING  
23,000SF  
FF=451.7

FUTURE STORAGE  
ADDITION  
3,300SF±

RESERVE AREA  
170 LF MANTIS 536-8  
OR EQUIVALENT  
SEE DETAIL SHEET



GENERAL NOTES

- NORTH ARROW, BEARINGS AND COORDINATES ARE BASED UPON THE CONNECTICUT COORDINATE SYSTEM (NAD 1983). ELEVATIONS, CONTOURS AND BENCH MARK ARE BASED UPON NGVD 1929.
- INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE. WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- J. EDWARDS & ASSOCIATES LLC, ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
- THIS PROJECT IS NOT WITHIN COASTAL ZONE MANAGEMENT AREAS AND/OR FLOOD ZONES.
- ALL UTILITY SERVICES ARE TO BE UNDERGROUND. THE EXACT LOCATION, MEANS OF CONSTRUCTION, AND SIZE OF ELECTRIC, TELEPHONE, AND CABLE TELEVISION ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. EXISTING UTILITY PIPE INVERTS ARE SHOWN AS APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO THE CONSTRUCTION.
- SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002", AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
- ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL, AND BE SEEDED WITH GRASS, AS SHOWN ON THE PLANS.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN OF MONROE REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 616 AND ADDENDUMS.
- THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
- ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS USED DURING CONSTRUCTION SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
- COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITEE.

EXISTING STOP SIGN AND STRIPE TO BE MAINTAINED

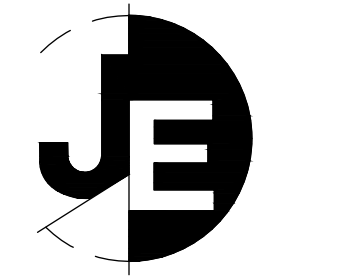
MH  
TF=451.66  
15" INV N=442.69  
15" INV S=442.69

L=222.09'  
R=630.00'  
Δ=20°11'53"  
Ch=N 08°37'49" E  
Ch=220.94'

MH  
TF=447.26  
15" INV N=441.57  
15" INV S=441.57

MH  
TF=435.80  
15" INV N=432.03  
15" INV S=431.88

L=84.35'  
R=269.78'  
Δ=17°54'51"  
Ch=N 07°29'18" E  
Ch=84.01'



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REVISIONS

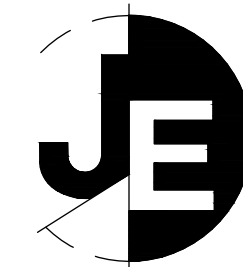
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3	05.01.22	PZC COM.
4	05.11.22	ENG. COM.

DATE: 12-13-21  
PROJECT #: 2873  
DRAWING FILE: SITE  
DRAWN BY: LE/JE/E  
SCALE: 1"=30'

TITLE  
SITE  
DEVELOPMENT  
PLAN

SHEET NUMBER

S-1



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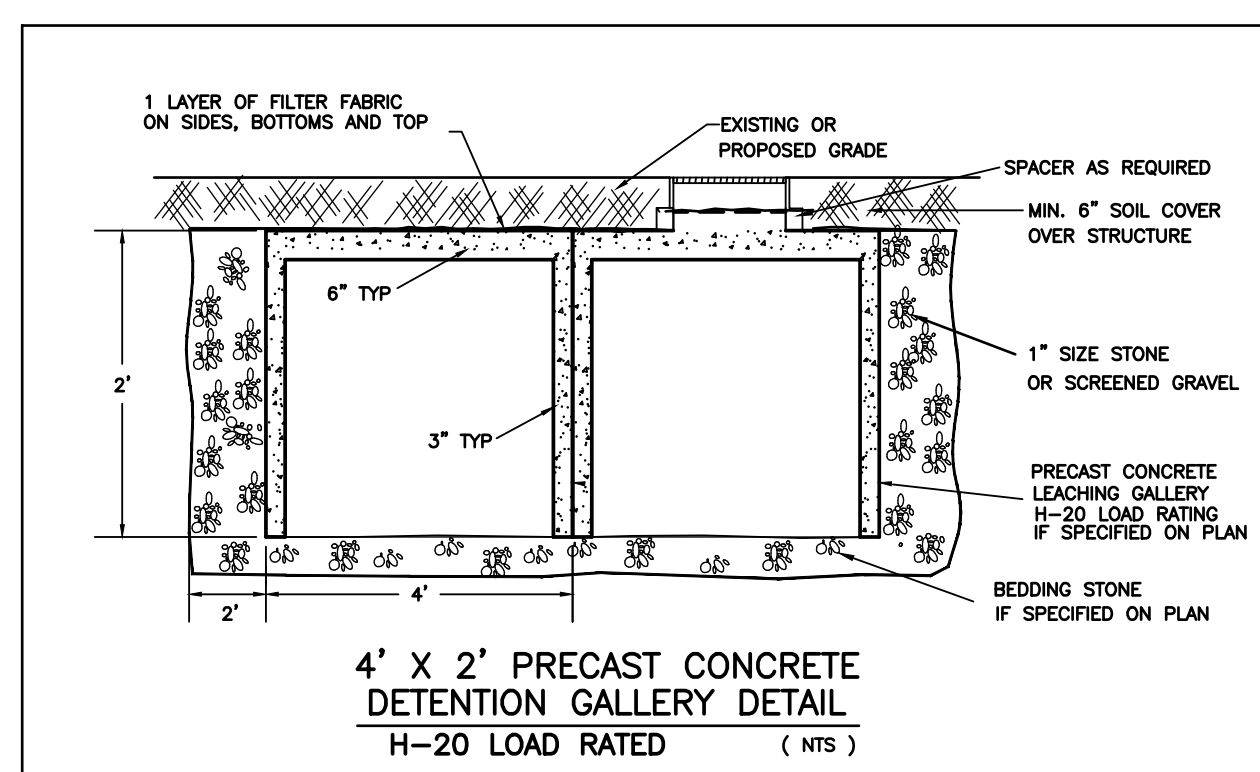
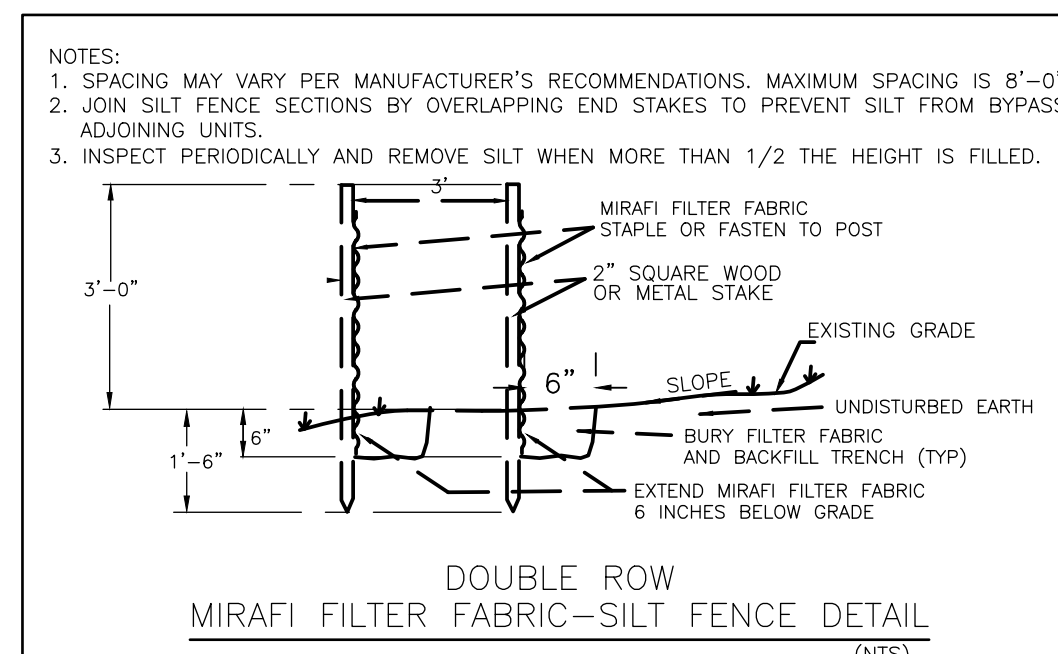
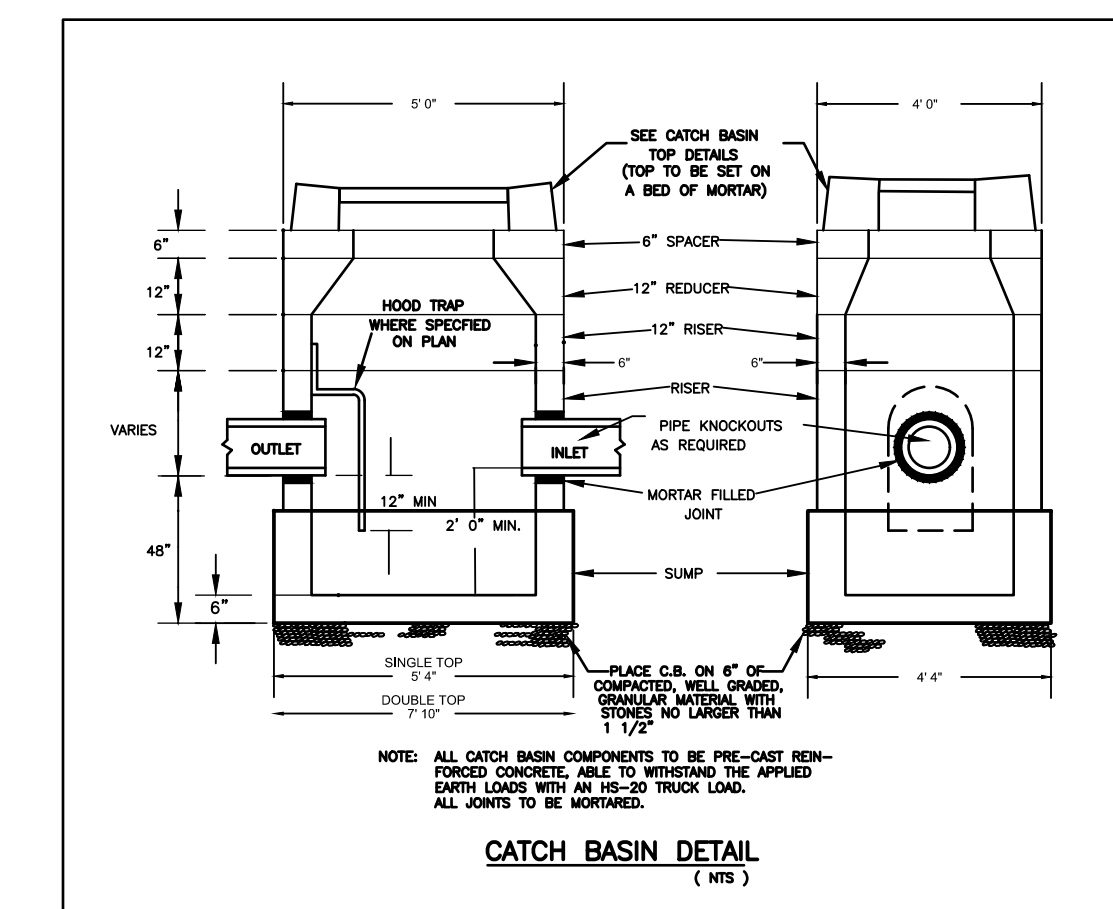
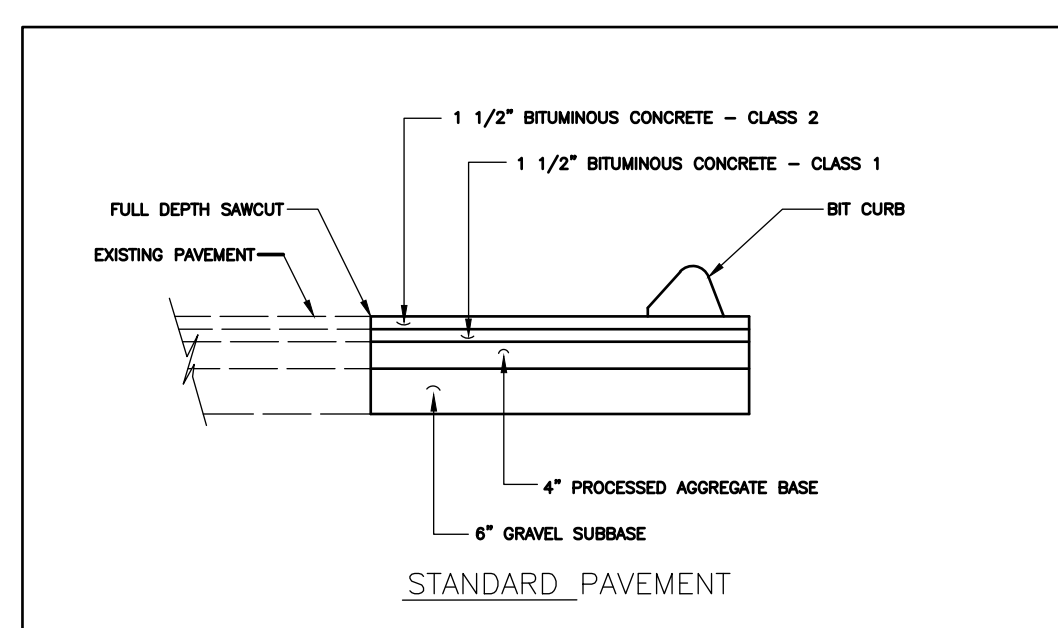
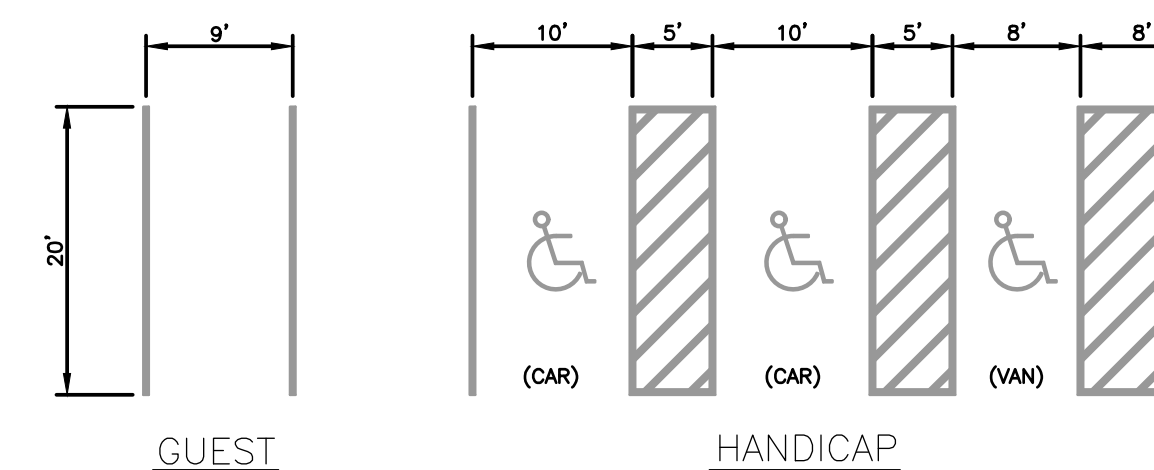
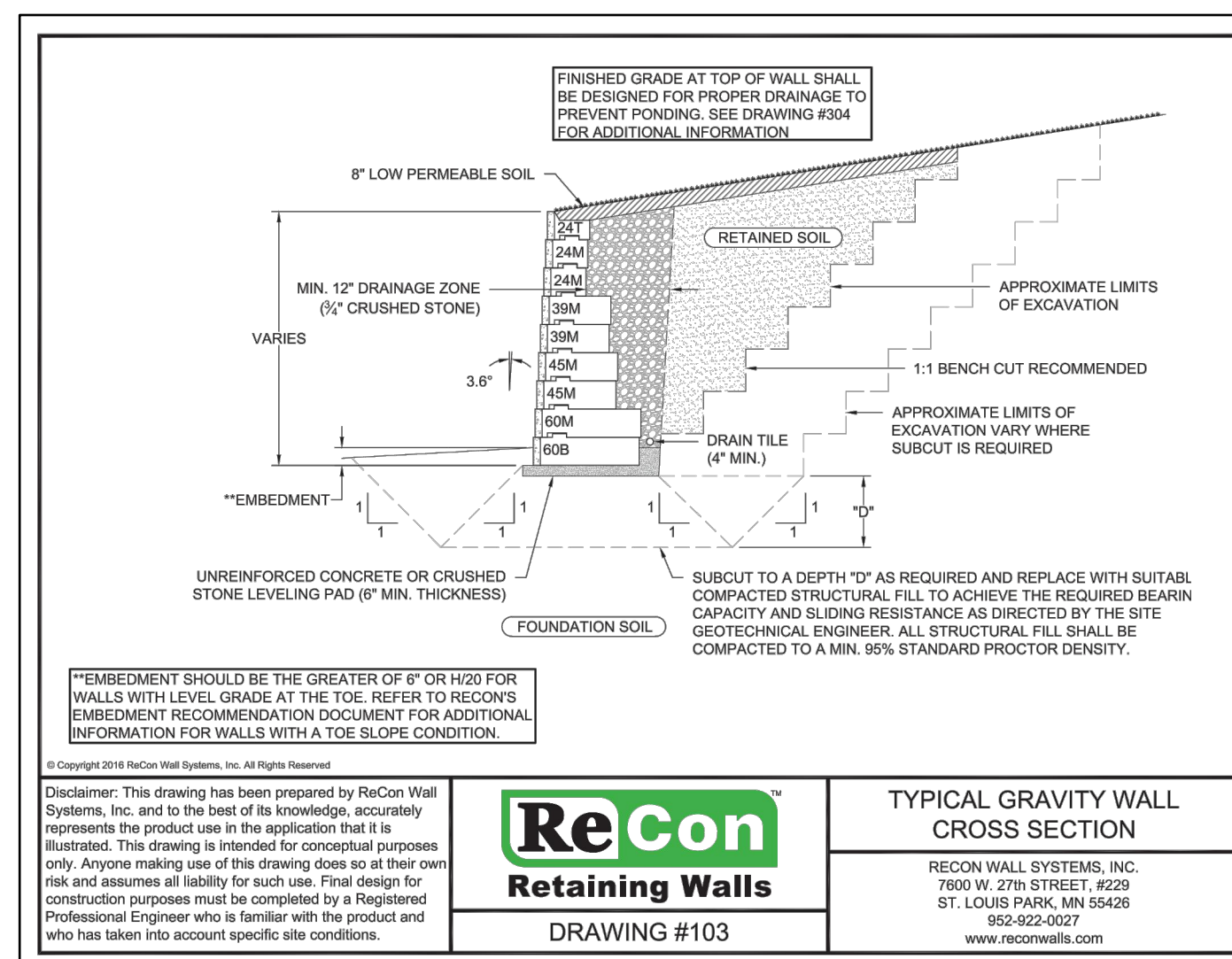
DATE: 12-13-21  
PROJECT #: 2873  
DRAWING FILE: SITE  
DRAWN BY: LE/JE/E  
SCALE: 1"=30'

TITLE

CONSTRUCTION  
DETAILS

SHEET NUMBER

S-2



TEST PIT DATA (June 1, 2006)

Conducted by B. Plourde (Pustola & Assoc.)  
Witnessed by T. Monks (Sanitarian)

TP A  
0' - 10" Topsoil  
10' - 48" Red Brown Fine Sandy Loam  
Ledge @ 46"  
No Ground Water  
No Motting

TP B  
0' - 6" Topsoil  
6' - 28'/58" Red Brown Fine Sandy Loam  
Ledge @ 28'/58"  
No Ground Water  
No Motting

TP C  
0' - 8" Topsoil  
8' - 58" Red Brown Fine Sandy Loam  
58" - 85" Grey Fine Sandy Loam  
No Ledge  
Ground Water @ 79"  
No Motting

PERCOLATION TEST RESULTS (June 8, 2006)

Conducted by B. Plourde (Pustola & Assoc.)

Hole #1 - 1 - 10 min./in.  
Hole #2 - 5.1 - 10 min./in.

PERCOLATION TEST READINGS (June 8, 2006)

HOLE #1 - 1 - 10 min./in.	HOLE #2 - 5.1 - 10 min./in.
0 min. - 18 1/2	0 min. - 12 7/8
5 min. - 18 7/8	5 min. - 15 3/8
10 min. - 20 3/8	10 min. - 17 1/8
15 min. - 22 1/8	15 min. - 18 5/8
20 min. - 23	20 min. - 19 7/8
25 min. - Dry	25 min. - 21
	30 min. - 21 7/8
	35 min. - 22 1/2
	40 min. - 23 1/4
	45 min. - 23 7/8

ADDITIONAL SOIL TESTING  
PERFORMED ON 12-10-21  
BY J. EDWARDS & ASSOC., LLC  
PERCOLATION RATE: 17/20MIN

TH-1  
0-36" MISC FILL  
36-70" RED BROWN SANDY LOAM WITH COBBLES  
ROOTS TO 36"  
NO WATER, NO LEDGE, NO MOTTLING

TH-2  
0-18" MISC FILL  
18-24" ORIGINAL TOPSOIL  
24-54" RED BROWN SANDY LOAM WITH COBBLES  
54-70" GRAY BROWN SAND & GRAVEL  
ROOTS TO 28"  
NO WATER, NO LEDGE, NO MOTTLING

SEPTIC RESERVE CALCULATIONS

RESTRICTIVE LAYER @ 79"  
NO MLSS REQUIRED

USE: INDUSTRIAL  
0.1 GPD PER S.F. FLOOR AREA  
2800 GPD x 28000 SF = 2800 ELA

PER RATE 1" IN 10 MIN. = 1.5 APPLICATION RATE  
2800 GPD / 1.5 APPLICATION RATE = 1866.7 ELA

RESERVE SYSTEM  
170 LF MANTIS 536-B = 1870 ELA

**A. GENERAL STATEMENT**

- This project consists of the expansion of parking areas at an existing industrial development.
1. Work on this project is expected to commence upon approval by the Town of Monroe. Final stabilization shall be completed as soon as possible after completion of work. In all cases disturbed areas shall be stabilized by the end of the growing season so that grass cover can be established. Construction shall be completed in accordance with the attached schedule.
2. The Storm Pollution control program for this site shall include the following as shown on the approved map:
- Installation of a filter fence as shown on the plan.
  - Installation of anti-tracking apron on the driveways and at entrance to the roads.
  - Installation of detention/sediment basins and traps
3. Prior to any construction on the site, a pre-construction meeting shall be held with the owner, contractor, design engineer, and the authorized town official to review the site and the required erosion/sedimentation and storm pollution control program.
4. The approved site plans, erosion control plan, engineering report and land use applications are considered part of this plan.

- B. SCHEDULING OF GRADING AND CONSTRUCTION ACTIVITIES**
- Prior to starting construction on the site, all erosion and sediment control measures shall be installed as directed by the design engineer, permittee and/or authorized town agent. Detailed plans have been provided. Detailed construction sequencing has been included on the sheet for each phase.
- Construction sequence:  
A detailed construction sequence has been included on the Erosion Control Plan.

**C. MEASURES TO BE USED DURING CONSTRUCTION**

1. **SILT FENCE**  
Silt fence consists of wooden post and filter fabric. Fences will be secured in place by wood posts set a maximum of five feet on-center. The filter fabric will be three feet in height. Fabric at the base of the fence will be buried at least six inches into the ground. Ties will be used to secure the fence on the uphill side to prevent overturning. The purpose of silt fences is to intercept and detain sediment contained in overland runoff from disturbed areas of limited extent. (Envirochoice by Mirafi Inc. is an acceptable alternative to the system described above.)
- Installation and Maintenance shall conform to the following:  
Sediment will be removed from behind silt fences when sediment has accumulated to 50% of original height of the fence.
2. **ANTI-TRACKING APRON**  
A ramp of crushed stone extending a minimum distance of 50 feet will be installed at the point of ingress and egress to the site. The purpose of the device is to minimize the potential of tracking mud from the site onto public right-of-way.
- Installation and Maintenance shall conform to the following:  
Minimum length will be 50 feet.  
Stone size will meet CT DOT standards for two inch crushed gravel.  
Stone will be placed upon the full width of the entrance roads.  
Thickness of stone will be four inches or greater.  
All sediment spilled, dropped, washed, or tracked onto public right-of-way will be removed immediately.
3. **TEMPORARY WATER BREAKS**  
This temporary device consists of a swale constructed across proposed roadways. The purpose of this device is to direct runoff away from the road surface and minimize sediment from entering the drainage system. This shortens the length of disturbed slope by intercepting runoff and diverting it away from the roadway catch basins.
- Installation and Maintenance shall conform to the following:  
Swales will be placed across roads, which are to be constructed in fill:  
Every 200 feet on slopes of 5-10%  
Every 300 feet on slopes less than 5%  
Contributory drainage swales, which are less than five acres.  
Swales drain to hay bale check dams.
4. **HAY BALE CHECK DAMS**  
Hay bale check dams of tightly bound, steel pin anchored, hay bales embedded four inches below grade in drainage swales adjacent to roadways or at the toe of an exposed slope. The purpose of a hay bale check dam is to reduce runoff velocity, and promote deposition and filtering of sediment from runoff. Hay bale check dams will be used where the runoff velocities will be less than three feet per second.
- Installation and Maintenance shall conform to the following:  
Compacted backfill will be placed against the up slope side of the Hay bales to a height of 4" above the ground.  
Check dams will be placed on slopes of 5-10%  
Every 100 feet on slopes greater than 10%  
Every 200 feet on slopes 5-10%  
Every 300 feet on slopes less than 5%  
Sediment shall be removed from hay bale check dams when sediment has accumulated to 50% of the original height.
5. **TEMPORARY SEDIMENT TRAPS**  
Runoff collected in roadway interceptor swales or other swales will be directed to a sediment trap. The trap consists of a small excavation and/or a trench. The purpose of the trap is to collect runoff, promote settling of sediment, and de-concentrate and distribute clean runoff overland through natural vegetation before it enters existing watercourses and wetlands.
- Installation and Maintenance shall conform to the following:  
Contributory drainage areas that are less than or equal to five acres.  
Utilized as part of swales prior to discharge to natural slopes.  
Traps will be placed such that runoff discharging from the trap will flow at least 30 feet overland through natural vegetation before entering wetlands.  
Traps will be designed before construction.  
Trap sides shall be compacted during construction.  
The trap outlet shall have crushed stone rip-rap hand placed for energy dissipation.  
Traps will be cleaned when sediment has accumulated to 50% of design volume.  
Remove sediment deposited upland and treat to reduce potential erosion.
6. **CATCH BASIN FILTERS**  
Temporary catch basin filters will be utilized to prevent the deposition of sediment into the storm sewer system prior to the stabilization of exposed areas with vegetation and/or pavement. These filters will consist of tightly bound, pin-anchored hay bales embedded four inches below grade, surrounding each catch basin inlet.
- Installation and Maintenance shall conform to the following:  
Placed around each catch basin inlet prior to paving or stabilization with vegetation.  
Sediment shall be removed from the filters when sediment has accumulated to 50% of the filter's original height.
7. **TEMPORARY GRADE TO DRAINS**  
This is a temporary raised berm of compacted soil, placed across a disturbed slope that intercepts runoff from disturbed areas and directs it to an appropriate outlet. This device will be used mostly on steep slopes above deep excavations.
- Installation and Maintenance shall conform to the following:  
Temporary grade to drains may be placed on cut and fill slopes exceeding 10 feet in height.  
Contributory drainage area should not be greater than one acre.  
Runoff will be diverted overland by the berms to sediment traps, sedimentation basins, swales, or check dams.  
On slopes over 5%, additional stabilization is required in the form of stone rip-rap eight inches vertically up the upslope side of the berm and seven feet upslope from the upslope toe of the berm.  
Top width of berm will be two feet. Side slopes will be 2:1 or flatter.  
All berms shall be machine compacted.
8. **RIP-RAP OUTFALL PROTECTION**  
As a permanent erosion control measure to protect the soil surface from the erosive forces and to slow the velocity of concentrated runoff while enhancing the potential for infiltration, velocity reducers in the form of crushed stone rip-rap will be used at the outlets of all drainage structures that discharge to wetlands or other sensitive areas. The minimum thickness of the rip-rap layer will be 1.5 times the maximum stone diameter but not less than six inches. Sizing the stone and determining the dimensions of the rip-rap pads will be completed upon further design of the project using the methods described in the Connecticut Guidelines for Soil Erosion and Sediment Control.
9. Names, addresses and phone numbers of all persons and organizations that will be responsible for the installation and maintenance of the erosion and sedimentation devices will be provided prior to any earth moving or any other construction activity.
10. Construction area to be kept clean from all litter, debris and other building materials collected and disposed of offsite in approved manner. All fuels, oils and other controlled chemicals to be stored in approved areas. Such areas to be bermed as necessary to prevent spills from entering open watercourses. Fueling of equipment shall not be allowed in other than approved areas. In the event of a fuel or chemical spill, immediate measures to be taken to control damage and local and state officials are to be notified immediately.
11. Where construction activities have permanently ceased or have temporarily been suspended for more than seven days, or when final grades are reached in any portion of the site, stabilization practices shall be implemented within three days. Areas that remain disturbed but inactive for at least thirty days shall receive temporary seeding in accordance with the guidelines.

**D. MAINTENANCE PROGRAM DURING CONSTRUCTION**

1. The designated site monitor will inspect disturbed areas of the construction activity that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of a storm that is 1 inches or greater. Where sites have been temporarily or finally stabilized, such inspection shall be conducted at least once every month for three months.
2. Additional control measures will be installed and the plan revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the site within 24 hours and implementation of any changes to the plan with 3 calendar days following the inspection. The plan shall be revised and the site controls updated in accordance with sound engineering practices, and applicable state and local regulations.
3. All control measures shall be maintained in effective working condition throughout the construction period.
4. Control measures found to be in disrepair shall be repaired or replaced immediately.
5. Sediment removed from control structures will be disposed of in a neat manner and disposed of in areas designated by the authorized town official or design engineer.
6. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the Stormwater Pollution Control Plan, and actions taken shall be made and retained as part of the Plan for at least three years after the date of inspection. The permittee, or his authorized representative shall sign the report.
7. The Owner, or his designated agent is assigned the responsibility for implementing this erosion and storm pollution control plan. This responsibility includes site inspections, preparation of reports, the 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 Control Plan and the Implementation Schedule for Erosion and Sedimentation Control if the title to the land is transferred.

**E. POST-CONSTRUCTION STORM MANAGEMENT**

1. After completion of site disturbance and satisfactory stabilization, all permanent control structures including detention basins, storm water ditches, and catch basins to be cleaned of all sediment and debris. At time of transfer of ownership and/or responsibility for control, the new owner or designated agent shall be advised of the sedimentation control maintenance requirements for the project.

**MAINTENANCE PROGRAM**

- Seasonal Site Inspection/Maintenance
- In the spring sweep sand deposits from the driveway areas and deposit at approved site. Inspect the water quality areas for excessive sediment buildup and remove as required.
  - In the fall, remove leaf debris from the site to avoid excessive loading of the water quality areas and rain gardens. Mow area, as required eliminating unwanted plant species.
  - All catchbasins to be inspected and cleaned yearly.
  - The infiltration systems to be inspected yearly. If there is significant sediment accumulation in the systems, the cleaning schedule for the catchbasins shall be increased to 2 times per year.

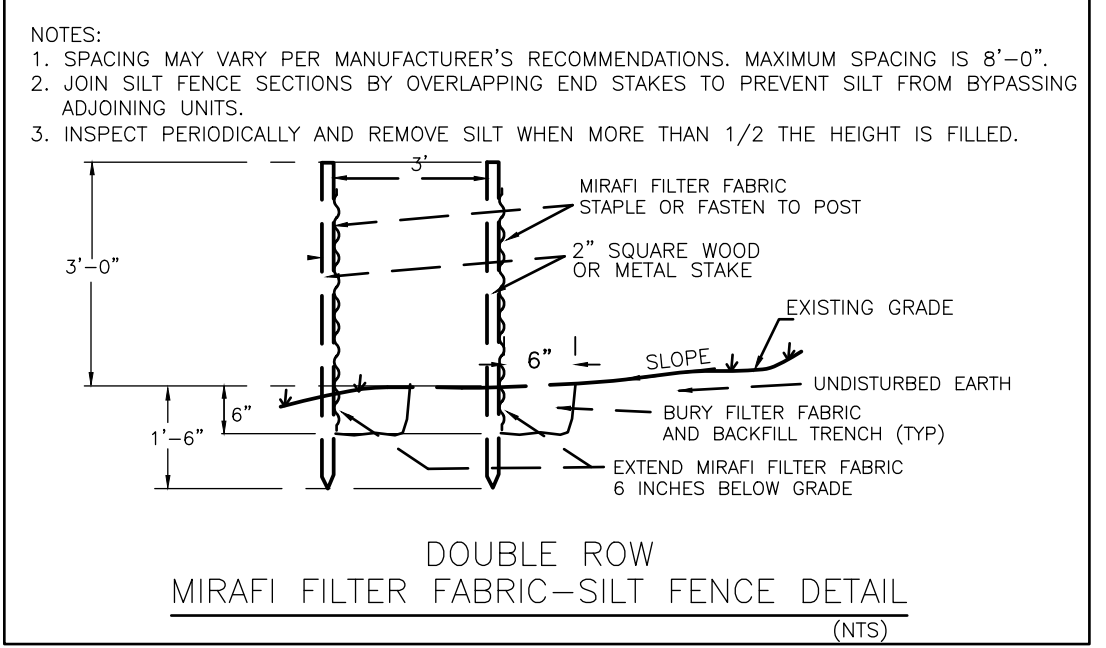
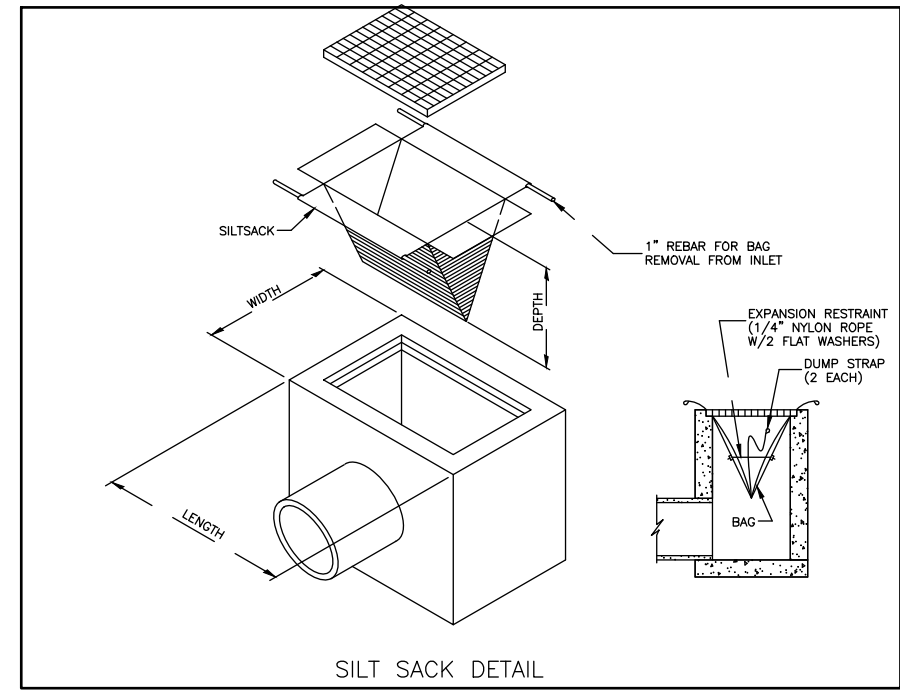
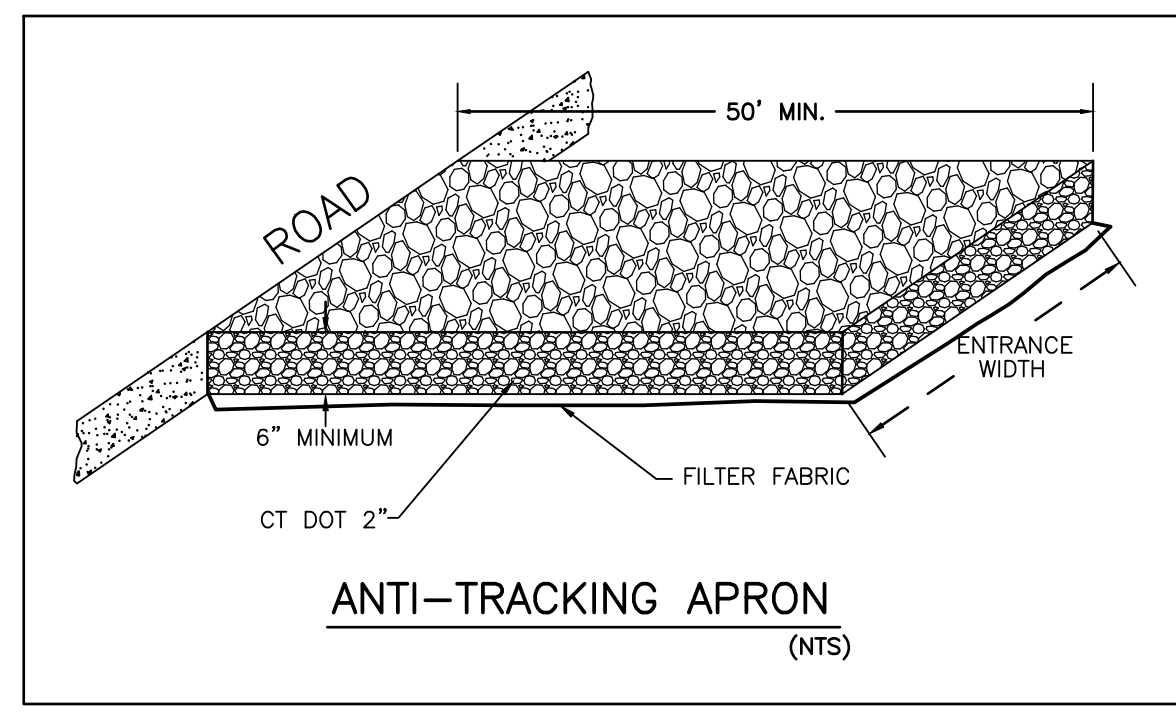
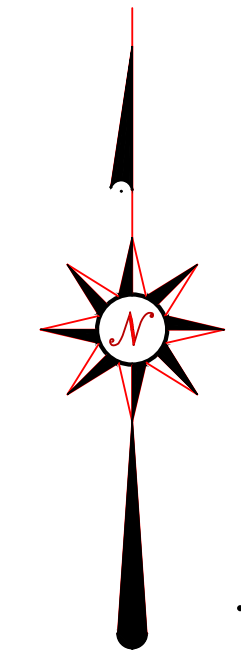
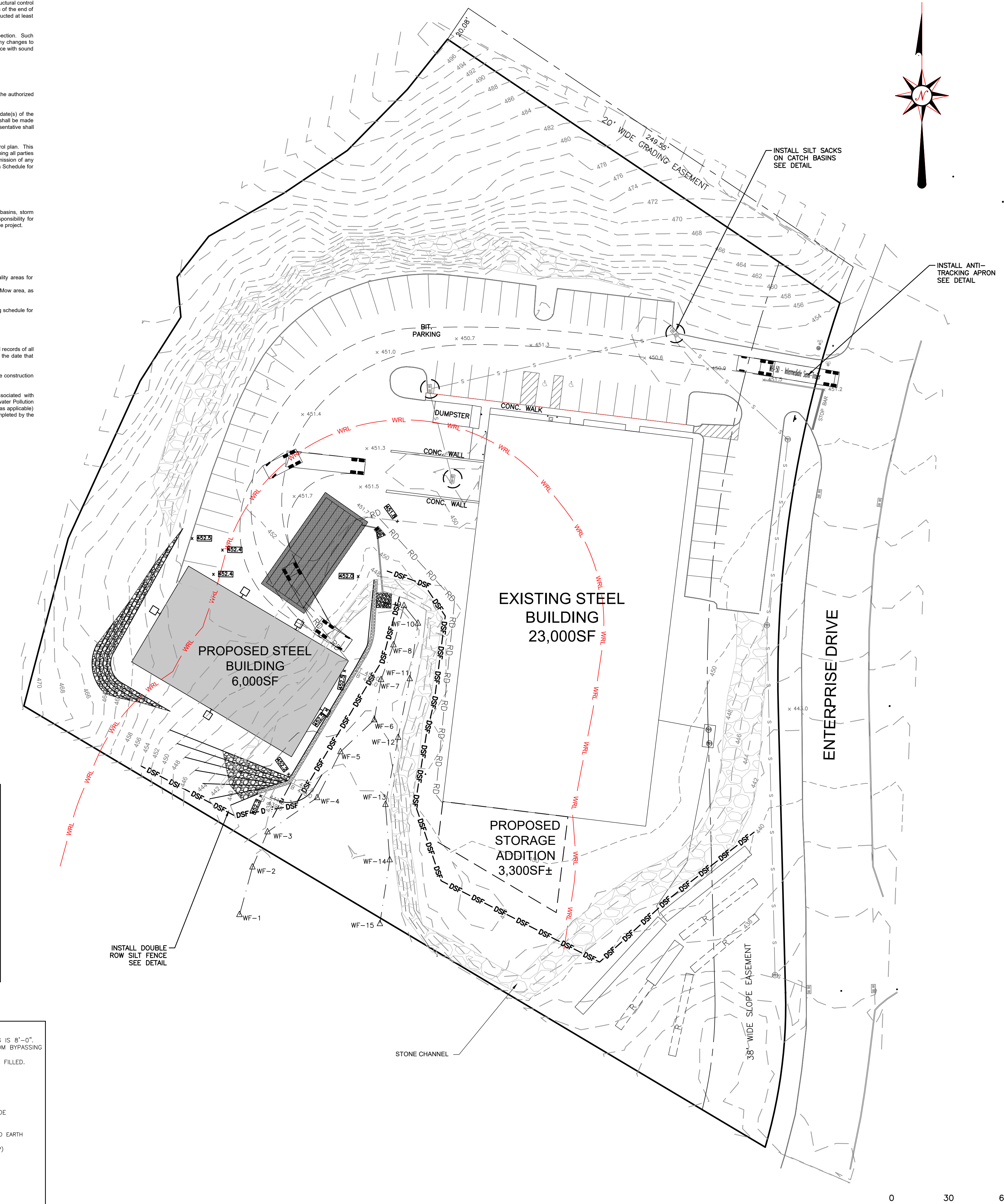
**F. REPORTING AND RECORD KEEPING REQUIREMENTS**

- The permittee shall retain copies of Stormwater Pollution Control Plans and all reports required by this general permit, and records of all data used to complete the registration to be authorized by this general permit, for a period of at least three years from the date that construction at the site is completed unless the commissioner specifies another time period in writing.
- The permittee shall retain an updated copy of the Stormwater Pollution Control Plan required by this general permit at the construction site from the date construction is initiated at the site until the date construction at the site is completed.
- Upon completion of construction, for sites authorized by the General Permit for the Discharge of Stormwater Associated with Commercial Activity or the General Permit for the Discharge of Stormwater Associated with Industrial Activity, the Stormwater Pollution Control Plan shall be kept as an appendix to the Stormwater Management Plan or Stormwater Pollution Prevention Plan (as applicable) for a period of at least three years from the date of completion of construction. A notice of termination form shall be completed by the permittee and forwarded to DEP upon completion of all site construction.

**GENERAL EROSION CONTROL NOTES:**

- A MINIMUM OF 4" OF TOPSOIL MUST BE PLACED ON ALL DISTURBED AREAS.
- ALL WASTE MATERIAL INCLUDING WASTEWATER, SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAW. LITTER SHALL BE PICKED UP AT THE END OF EACH WORKING DAY.
- EAS CONTROLS SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF GREATER THAN 1 INCH.
- ACCUMULATED SEDIMENT SHALL BE REMOVED AS REQUIRED TO KEEP SILT FENCES FUNCTIONAL. IN ALL CASES, DEPOSITS SHALL BE REMOVED WHEN ACCUMULATED SEDIMENT HAS REACHED ONE-HALF ABOVE THE GROUND HEIGHT OF THE FENCE.
- ALL SOIL STABILIZATION SHALL BE COMPLETED WITHIN FIVE (5) DAYS OF CLEARING OR INACTIVITY IN CONSTRUCTION.
- THE DEVELOPER SHALL PRACTICE EFFECTIVE DUST CONTROL PER SOIL CONSERVATION HANDBOOK DURING CONSTRUCTION AND UNTIL ALL AREAS ARE STABILIZED OR SURFACE TREATED. THE DEVELOPER SHALL BE RESPONSIBLE FOR CLEANING OF NEARBY STREETS, AS ORDERED BY THE TOWN, OF ANY DEBRIS FROM THESE CONSTRUCTION ACTIVITIES.
- IF SEEDING OR OTHER VEGETATIVE EROSION CONTROL METHOD IS USED, IT SHALL BECOME ESTABLISHED WITHIN TWO WEEKS OR THE TOWN MAY REQUIRE THE SITE TO BE RESEEDD OR A NONVEGETATIVE OPTION TO BE EMPLOYED.
- SOIL STOCKPILES MUST BE STABILIZED AS PER THE LATEST EDITION OF THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- ALL DISTURBED AREAS TO BE SEEDD WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX (SEE CONSTRUCTION DETAIL SHEET) UNLESS OTHERWISE SPECIFIED ON PLANS.

EROSION CONTROL BLANKETS SHALL BE USED TO STABILIZE ALL SLOPE AREAS GREATER THAN 3 TO 1



- NOTES:
- SPACING MAY VARY PER MANUFACTURER'S RECOMMENDATIONS. MAXIMUM SPACING IS 8'-0".
  - JOIN SILT FENCE SECTIONS BY OVERLAPPING END STAKES TO PREVENT SILT FROM BYPASSING ADJOINING UNITS.
  - INSPECT PERIODICALLY AND REMOVE SILT WHEN MORE THAN 1/2 THE HEIGHT IS FILLED.



**J. EDWARDS & ASSOCIATES LLC**  
ENGINEERING • SURVEYING • SITE PLANNING

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www.jedwardsassoc.com

BML TOOL, INC.  
67 ENTERPRISE DRIVE  
MONROE, CONNECTICUT

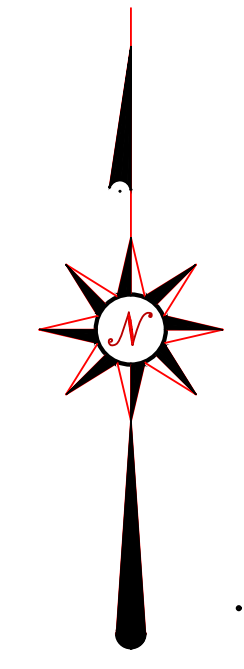
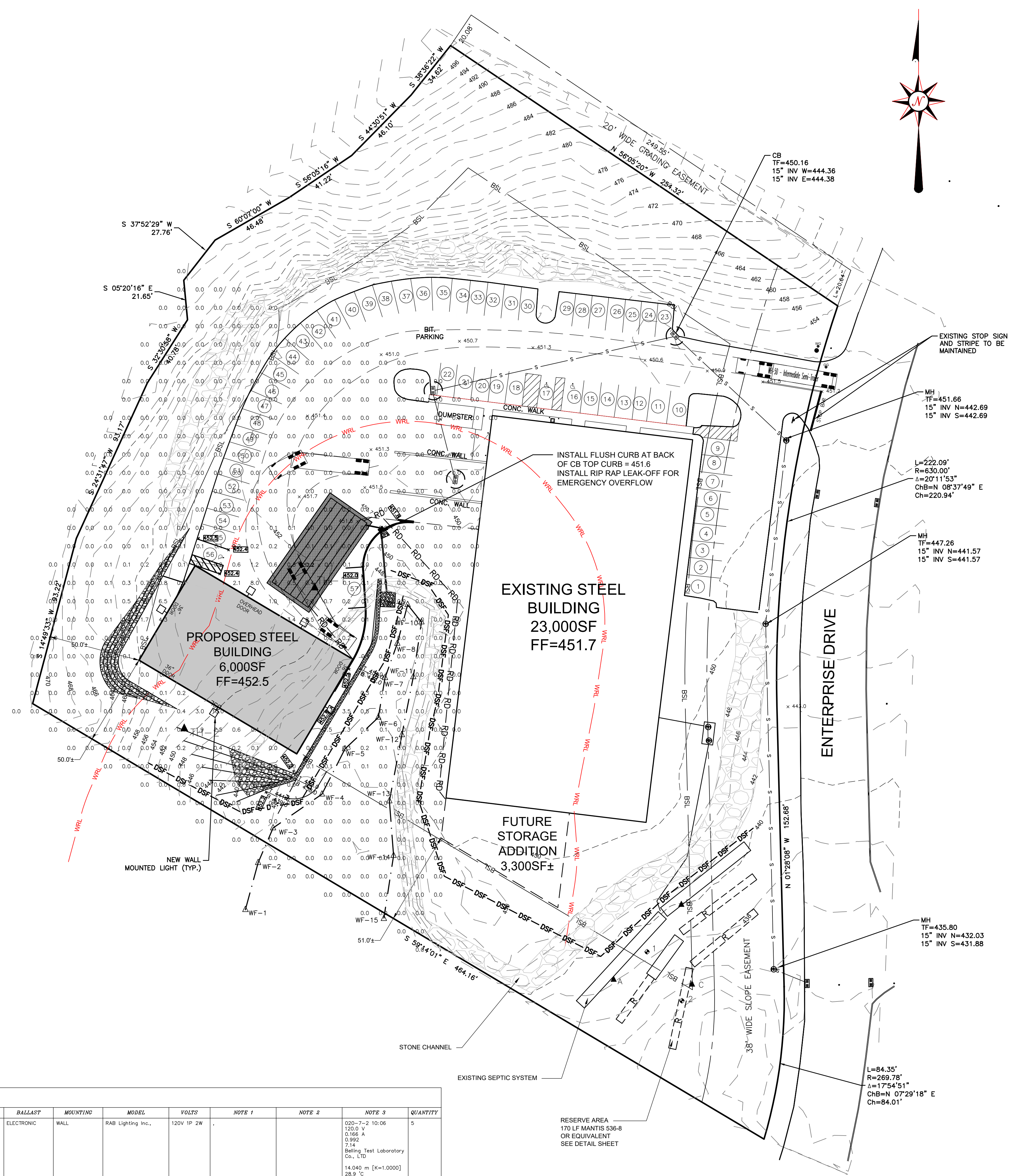
REVISIONS

#	DATE	DESCRIPTION
1	02.04.22	ENG.&IWC COM.
2	02.28.22	ENG.COM.
3	05.01.22	PZC COM.
4	05.11.22	ENG. COM.

DATE: 12-13-21  
PROJECT #: 2873  
DRAWING FILE: SITE  
DRAWN BY: LE/JE/E  
SCALE: 1"=30'

**EROSION CONTROL PLAN**

SHEET NUMBER  
**EC-1**



BRISK17FA20

RAB

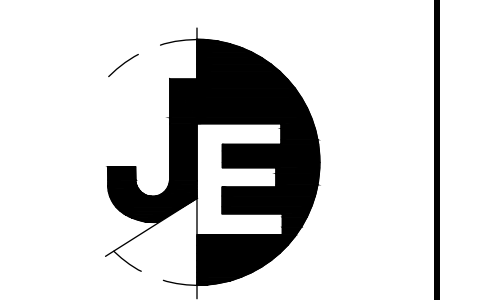


Color: Bronze Weight: 2.3 lbs

Project:	Type:		
Prepared By:	Date:		
<b>Driver Info</b>			
Type	Constant Current	Watts	20W
120V	0.08A	Color	3000K/4000K/5000K
208V	0.10A	Temp	
240V	0.08A	Color	80 CRI
277V	0.07A	LED	100,000 Hours
Input Watts	19.3/19.9/19.7W	Lumens	2600/2921/2703
		Efficacy	134.7/146.9/137.2 lm/W

<b>Technical Specifications</b>	<b>LED Characteristics</b>	<b>Construction</b>
<b>Field Adjustability</b> Field Adjustable: Color temperature selectable by 3000K, 4000K and 5000K	<b>LEDs:</b> Long-life, high-efficiency, surface-mount LEDs	<b>IP Rating:</b> Ingress protection rating of IP65 for dust and water
<b>UL Listed:</b> Suitable for wet locations IESNA LM-79 & LM-80 Testing: RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.	<b>Color Uniformity:</b> RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.	<b>Cold Weather Starting:</b> The minimum starting temperature is -40°C (-40°F)
<b>DLC Listed:</b> This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC S.1 requirements. DLC Product Code: PL111M5H9HX	<b>Electrical</b> <b>Driver:</b> Constant Current, Class 2, 120-277V, 50/60 Hz, 120W; 0.20A, 200V-0.10A, 240V-0.08A, 277V-0.07A	<b>Ambient Temperature:</b> Suitable for use in up to 45°C (113°F)
<b>Performance:</b> Lifespan: 100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations	<b>Dimming Driver:</b> Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dimm down to 10%.	<b>Housing:</b> Precision die-cast aluminum
	<b>Photocell:</b> 120-277V Discreet, integrated button photocell included. Photocell is compatible with 120V-277V.	

LUMINAIRE SCHEDULE											
CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	VOLTS	NOTE 1	NOTE 2	NOTE 3	QUANTITY
w1		(1)	BRISK17FA20_SK	ELECTRONIC	WALL	RAB Lighting Inc.	120V 1P 2W			020-7-2 10:06 120.0 V 0.166 A 0.992 7.14 Bellini Test Laboratory Co., LTD 14.040 m [K=1.0000] 28.9 °C	5



**J. EDWARDS & ASSOCIATES LLC**  
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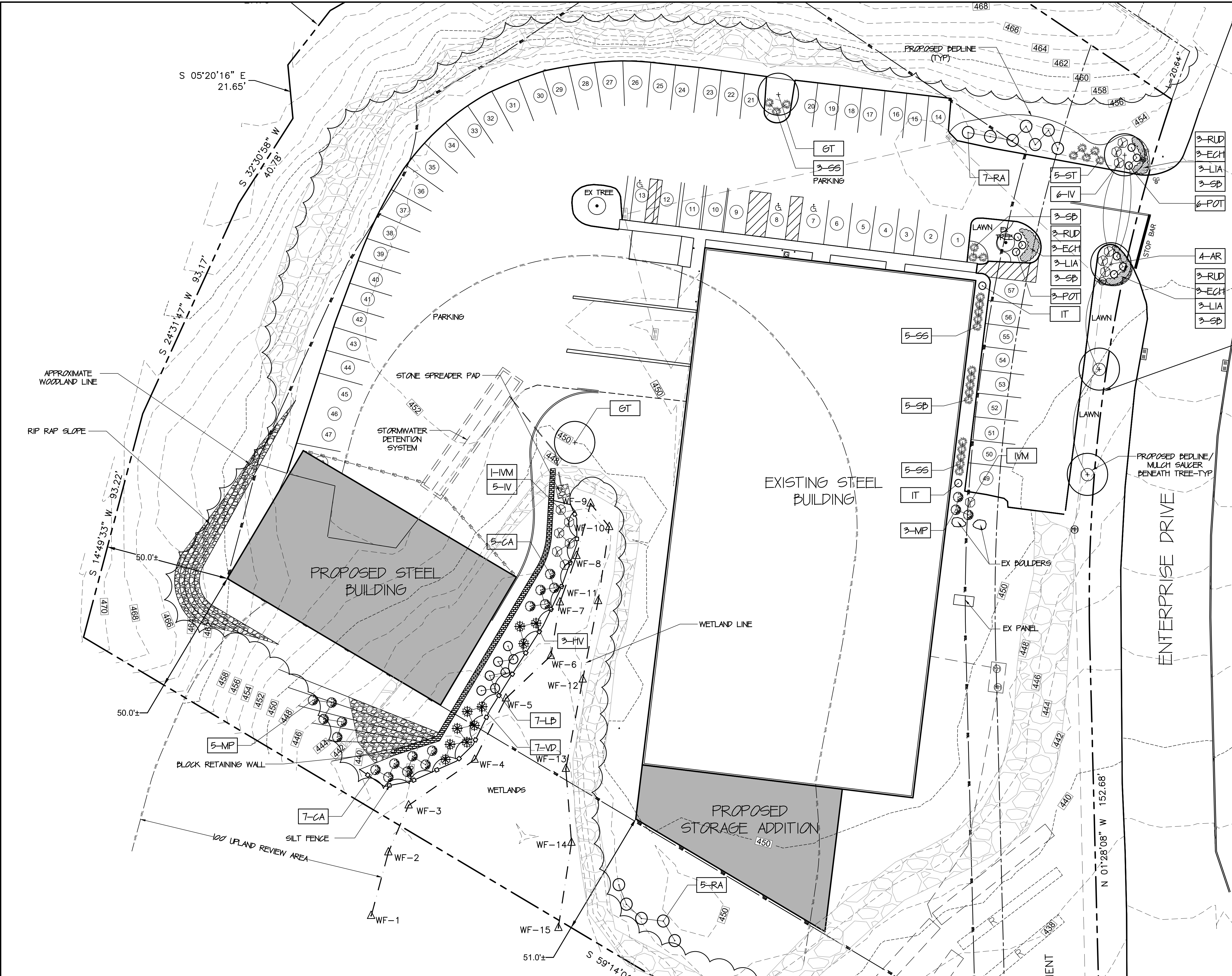
BML TOOL, INC.  
67 ENTERPRISE DRIVE  
MONROE, CONNECTICUT

REVISIONS		
#	DATE	DESCRIPTION
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2	02.28.22	ENG.COM.
3	05.01.22	PZC.COM.
4	05.11.22	ENG.COM.

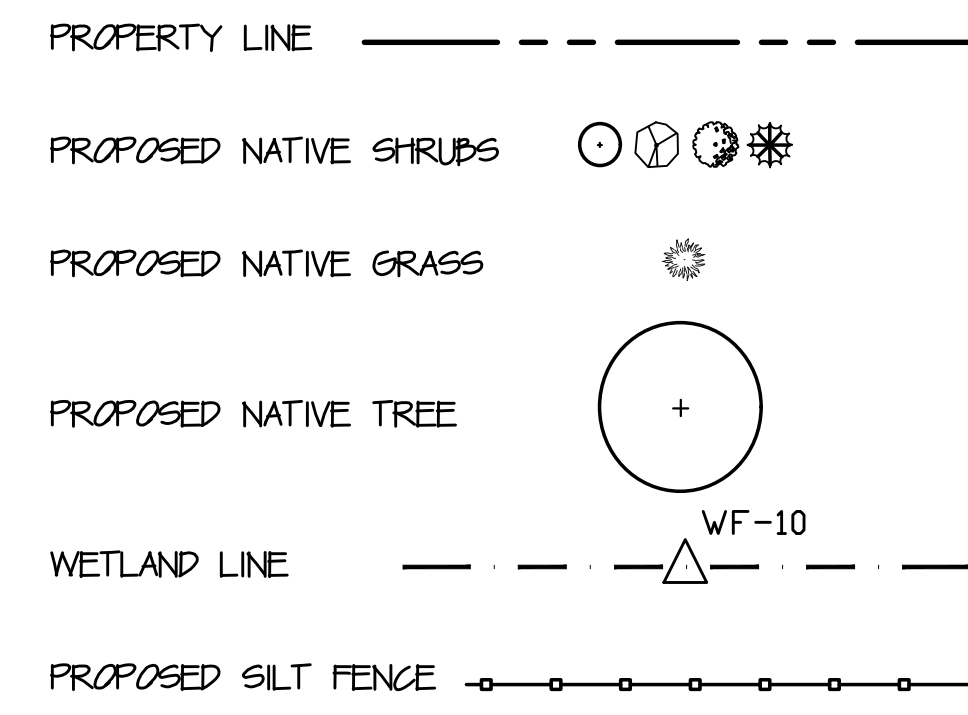
DATE: 12-13-21  
PROJECT #: 2873  
DRAWING FILE: SITE  
DRAWN BY: LE/JE/E  
SCALE: 1"=30'

TITLE  
**LIGHTING PLAN**

SHEET NUMBER  
**LP**



**WETLAND PLANTING LEGEND**



**PLANTING NOTES:**

- CONTACT CALL BEFORE YOU DIG AT 800-922-4455 TO HAVE UNDERGROUND UTILITY LINES MARKED PRIOR TO START OF ANY EXCAVATION WORK.
- ANY INVASIVE VEGETATION WITHIN THE WORK AREA TO BE REMOVED IS TO BE FLAGGED BY LANDSCAPE ARCHITECT, REMOVED BY HAND AND DISPOSED OF IN AN OFF-SITE LOCATION.
- EXACT LOCATION OF PLANTINGS, SPECIES TYPES AND QUANTITIES MAY VARY FROM THIS PLAN BASED ON SITE PLAN REVISIONS AND/OR ACTUAL FIELD CONDITIONS.
- PLANT SPECIES SUBSTITUTIONS MAY BE MADE WITH THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT PRIOR TO PLANTING. SUBSTITUTED PLANTS SHALL BE AT AN EQUAL OR GREATER SIZE AS NOTED USING A SIMILAR TYPE PLANT.
- ALL PLANTING METHODS SHALL BE IN ACCORDANCE WITH THE 'AMERICAN STANDARDS FOR NURSERY STOCK' LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
- IN THE EVENT OF A DISCREPANCY BETWEEN THE QUANTITIES OF PLANTS IN THE 'PLANT LIST' AND THE ACTUAL QUANTITIES SHOWN ON THE PLAN THE PLAN SHALL GOVERN.
- ALL PLANTING WORK SHALL BE PERFORMED EITHER BY HAND OR BY RUBBER TRACKED EQUIPMENT.
- ANY PLANTINGS SUSCEPTIBLE TO DEER BROWSING SHALL BE SPRAYED WITH ORGANIC DEER REPELLENT.
- PLANTINGS SHALL BE HAND WATERED OR WATERED WITH A TEMPORARY IRRIGATION SYSTEM UNTIL ESTABLISHMENT.
- BASE MAP INFORMATION WAS TAKEN FROM "SITE DEVELOPMENT PLAN" PREPARED BY J. EDWARDS & ASSOCIATES, LLC ENGINEERING AND SURVEYING, DATED DECEMBER 1, 2021.

**WORK SEQUENCE:**

- INSTALL SILT FENCE AS SHOWN ON PLAN
- INSTALL NATIVE TREES AND SHRUBS
- PROVIDE 2" OF MULCH IMMEDIATELY BENEATH ALL NEW TREES AND SHRUBS
- FINE RAKE, SEED AND MOW MULCH TO RESTORE ALL DISTURBED LAWN AREAS
- REMOVE EROSION CONTROLS AFTER SITE IS STABLE

**UPLAND PLANT LIST-BML Tool**

* QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPREAD	SPACING	NOTES
<b>TREES</b>							
4	AR	Acer rubrum 'Red Sunset'	Red Sunset Maple	3"-3 1/2" DBH		40' O.C.	B&B, Specimen, Matching
1	GT	Gleditsia triacanthos var. inermis 'Shademaster'	Shademaster Honeylocust	3"-3 1/2" DBH		as shown	B&B, Specimen, Matching
<b>SHRUBS</b>							
1	IVM	Ilex verticillata 'Southern Gentleman'	Southern Gentleman Winterberry	2'-3' ht.	6'	3' O.C.	Full, Heavy, Container
6	IV	Ilex verticillata 'Winter Red'	Winter Red Winterberry	2'-3' ht.	6'	3' O.C.	Full, Heavy, Container
2	IT	Itea virginica 'Henry's Garnet'	Virginia Sweetpire	2'-3' ht.	3'	3' O.C.	Full, Heavy, Container
3	MP	Myrica pensylvanica	Northern Bayberry	2'-3' ht.	6'	3' O.C.	Full, Heavy, Container
9	POT	Potentilla fruticosa 'Goldfinger'	Bush Cinquefoil	2'-3' ht.	3'	3' O.C.	Full, Heavy, Container
7	RA	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	2'-3' ht.	6'	3' O.C.	Full, Heavy, Container
<b>PERENNIALS</b>							
9	ECH	Echinacea 'PowWow Wildberry'	PowWow Wildberry Coneflower	1 Gallon		18" O.C.	Full, Heavy, Container
9	LS	Liatris spicata	Blazing Star	1 Gallon		18" O.C.	Full, Heavy, Container
9	RUD	Rudbeckia fulgida 'Goldsturm'	Black-eyed Susan	1 Gallon		18" O.C.	Full, Heavy, Container
5	ST	Sporobolus heterolepis 'Tara'	Prairie Dropseed	1 Gallon		18" O.C.	Full, Heavy, Container
17	SB	Schizachyrium scoparium 'The Blues'	Little Bluestem	1 Gallon		18" O.C.	Full, Heavy, Container
13	SS	Schizachyrium scoparium 'Smoke Signal'	Little Bluestem	1 Gallon		18" O.C.	Full, Heavy, Container

Note: Provide beneath trees and shrubs 2" of shredded bark mulch.

**WETLAND BUFFER PLANT LIST-BML Tool**

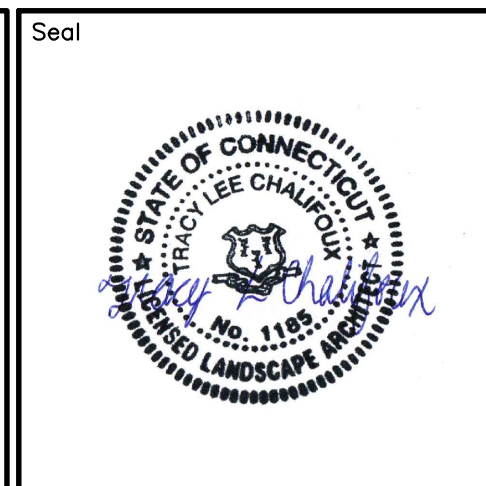
QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPREAD	SPACING	NOTES
1	GT	Gleditsia triacanthos var. inermis 'Shademaster'	Shademaster Honeylocust	3"-3 1/2" DBH		as shown	B&B, Specimen, Matching
<b>SHRUBS</b>							
12	CA	Clethra alnifolia	Sweet Pepperbush	3"-3 1/2" ht.	6'	6' O.C.	Full, Heavy, Container
3	HV	Hamamelis virginiana	Witchhazel	3"-3 1/2" ht.	6'	6' O.C.	Full, Heavy, Container
1	IVM	Ilex verticillata 'Southern Gentleman'	Southern Gentleman Winterberry	3"-3 1/2" ht.	6'	6' O.C.	Full, Heavy, Container
5	IV	Ilex verticillata 'Winter Red'	Winter Red Winterberry Holly	3"-3 1/2" ht.	6'	6' O.C.	Full, Heavy, Container
7	LB	Lindera benzoin	Spicebush	3"-3 1/2" ht.	6'	6' O.C.	Full, Heavy, Container
5	MP	Myrica pensylvanica	Northern Bayberry	3"-3 1/2" ht.	6'	6' O.C.	Full, Heavy, Container
5	RA	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	2'-3' ht.	3'	3' O.C.	Full, Heavy, Container
7	VD	Viburnum dentatum	Arrowwood Viburnum	3"-3 1/2" ht.	6'	8' O.C.	Full, Heavy, Container

Note: Provide beneath trees and shrubs 2" of non-dyed bark mulch.

Revisions	Date

--

**Tracy Chalifoux LLC**  
 Landscape Architect  
 7 King Street, Danbury, CT 06811  
 Office: 845-364-1360  
 E-mail: tchalifoux@gmail.com



Project Title  
**LANDSCAPE PLAN**  
 BML TOOL

Location  
 67 ENTERPRISE DRIVE  
 MONROE, CONNECTICUT

Graphic Scale and North Arrow

Date  
 December 20, 2021

Scale  
 1" = 20'-0"

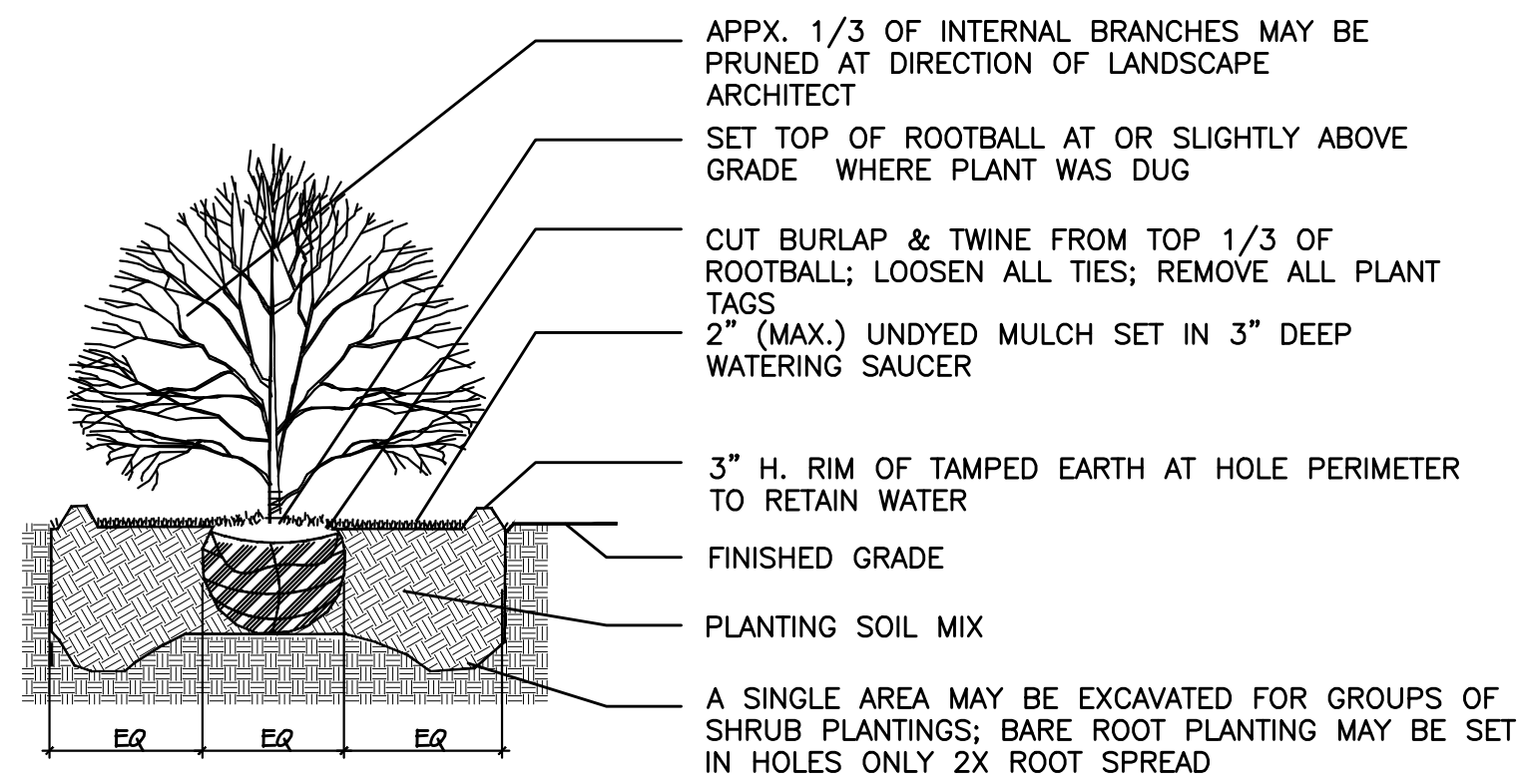
Checked  
 SD

Drawn  
 TLC

Drawing Title  
**LANDSCAPE & WETLAND  
 MITIGATION PLAN**

Drawing No.  
**L-1**

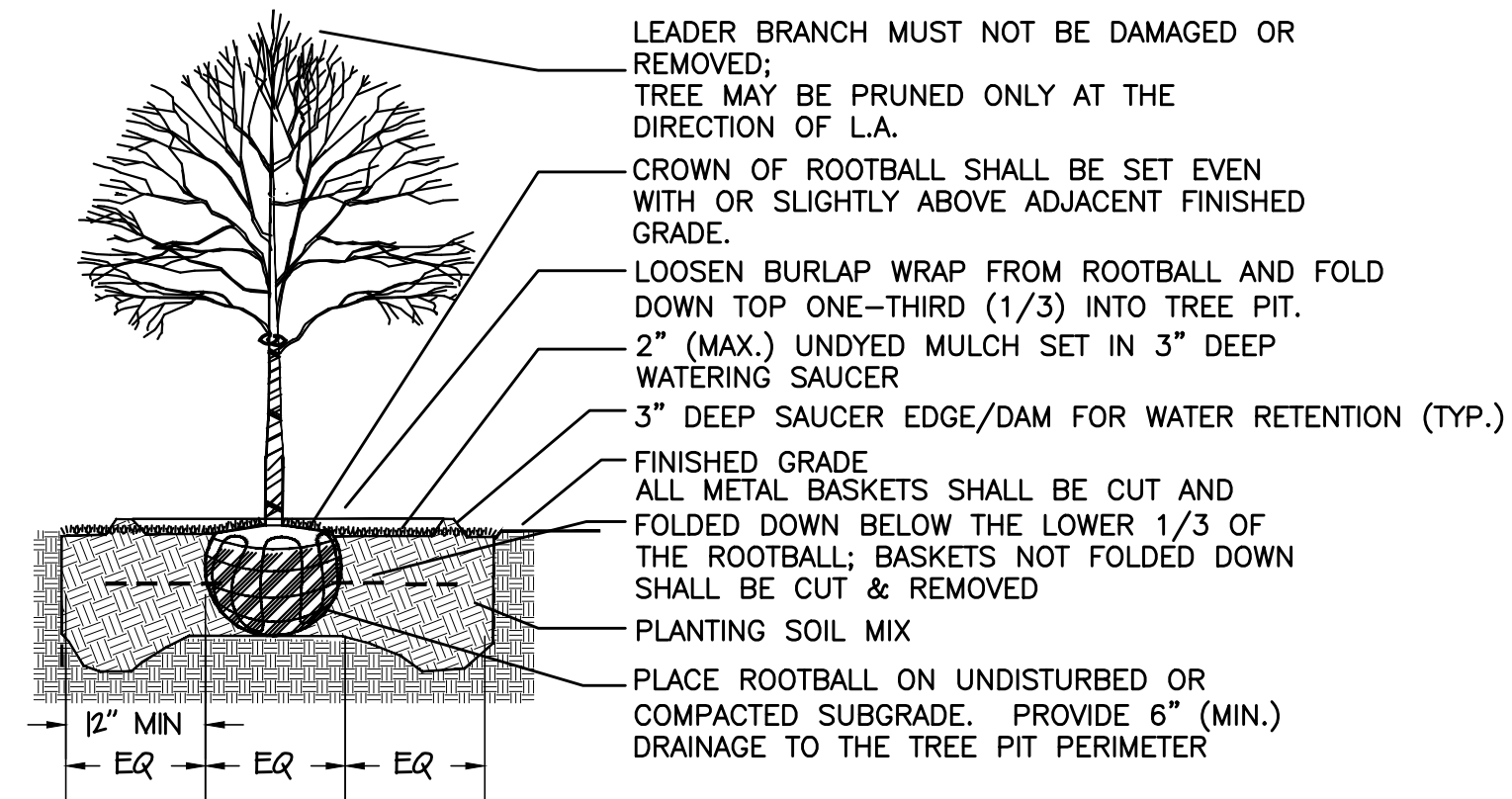
SHEET 1 OF 2



NOTE: FOR ALL CONTAINER GROWN PLANTS, REMOVE FROM CONTAINER JUST PRIOR TO PLANTING AND MAKE VERTICAL INCISIONS ALONG THE SURFACE OF THE ROOTBALL WITH A SHARP INSTRUMENT. CUT THROUGH CIRCULAR ROOTS AND GENTLY COMB OUT ROOTS.

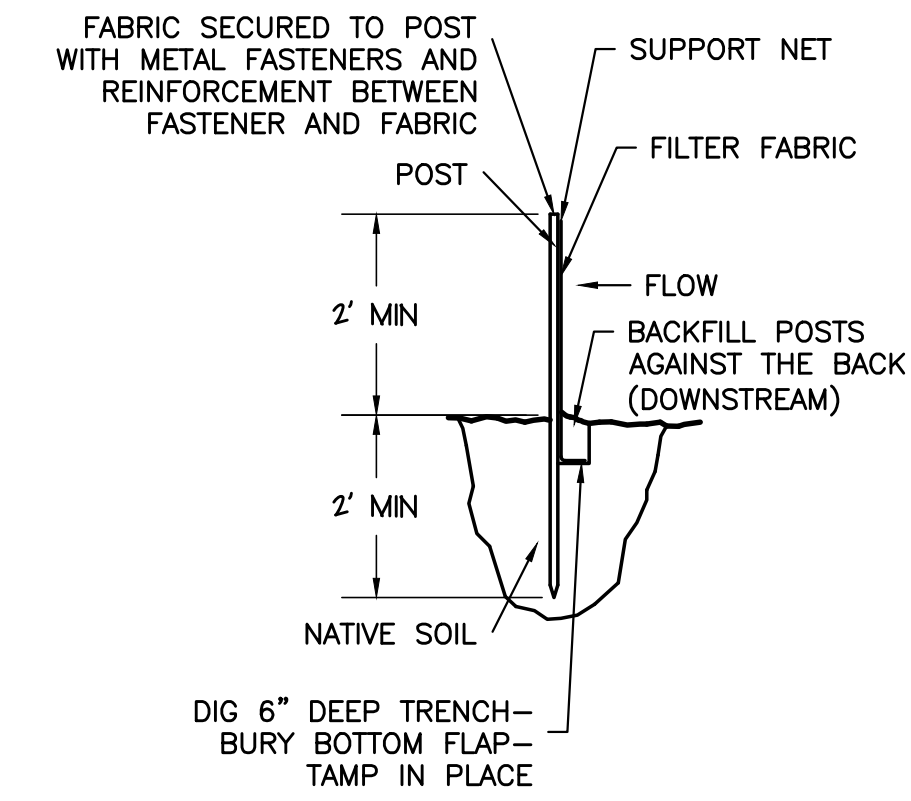
**1 SHRUB PLANTING DETAIL**

NOT TO SCALE



**2 DECIDUOUS TREE PLANTING DETAIL**

NOT TO SCALE

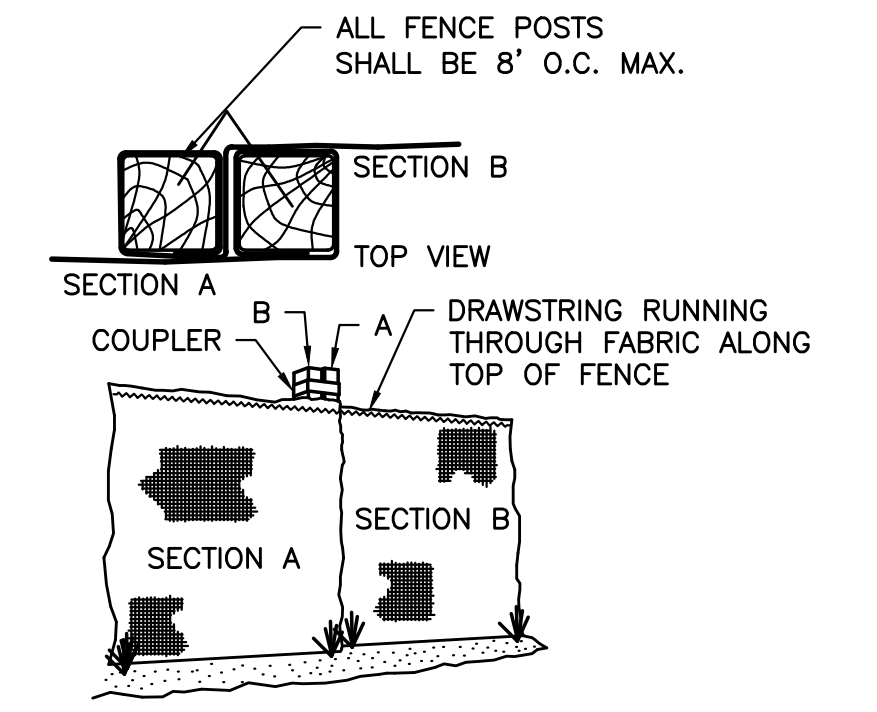


**TOE-IN METHOD**

- INSTALLATION NOTES:
1. ALL INSTALLATION AS PER ASTM STANDARDS
  2. EXCAVATE A 6 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE
  3. UNROLL A SECTION AT A TIME AND POSITION WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW)
  4. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM
  5. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH
  6. JOIN SECTIONS AS SHOWN ABOVE

**3 FABRIC SILTATION FENCE DETAIL**

NOT TO SCALE




**JOINING SECTIONS OF FENCING**

Revisions	Date

--

  
**Tracy Chalifoux LLC**  
 Landscape Architect  
 7 King Street, Danbury, CT 06811  
 Office: 845-364-1360  
 E-mail: tchalifoux@gmail.com

Seal  


**LANDSCAPE PLAN**  
 BML TOOL

Location: 67 ENTERPRISE DRIVE  
MONROE, CONNECTICUT

Graphic Scale and North Arrow

Date: December 20, 2021

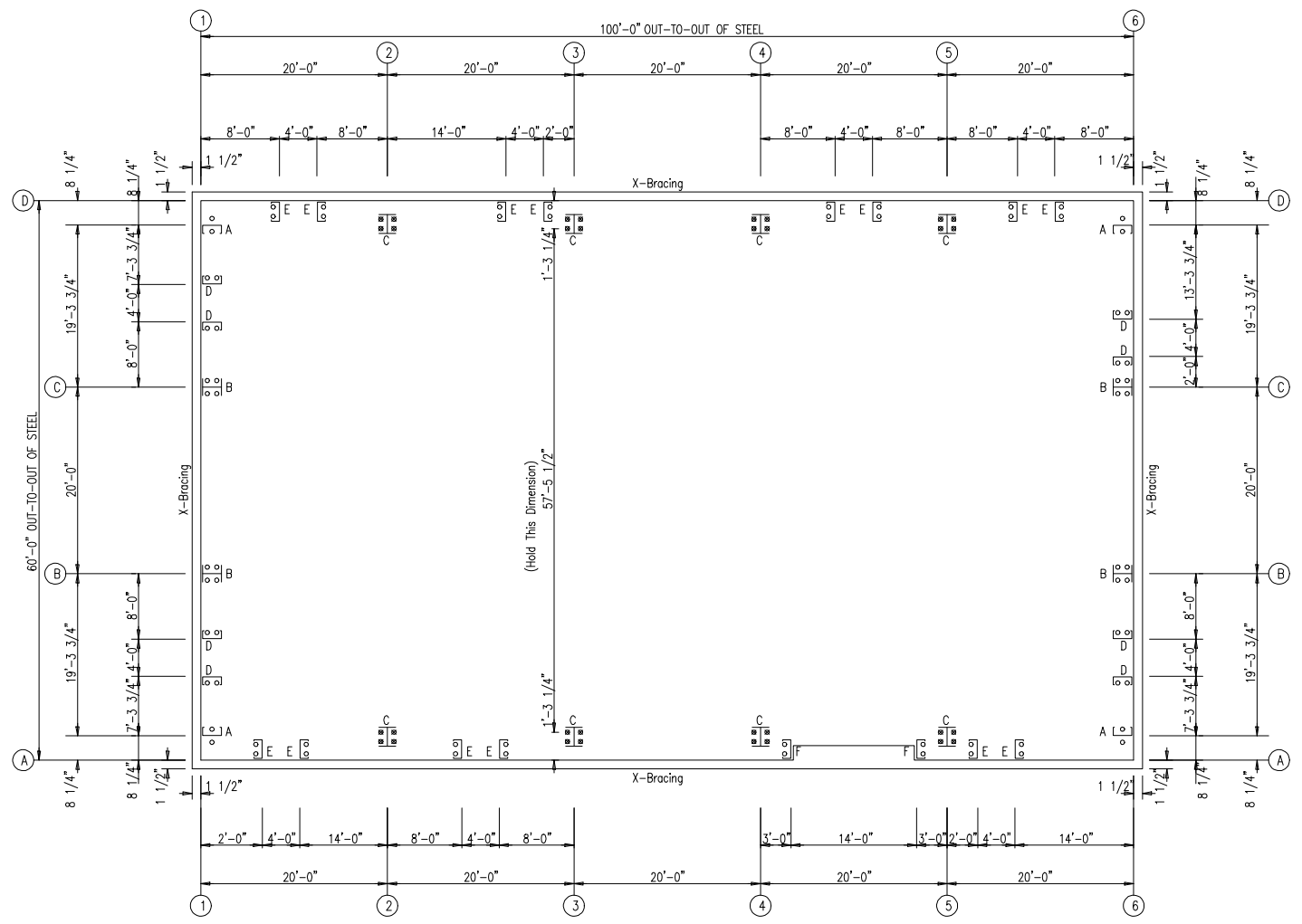
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Drawing Title: PLANTING & SITE DETAILS

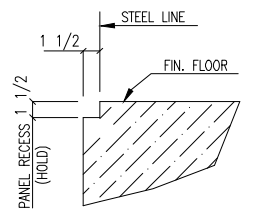
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SHEET 2 OF 2

○ Dia= 5/8"  
 ⊗ Dia= 3/4"



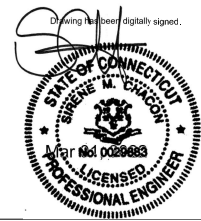
ANCHOR BOLT PLAN

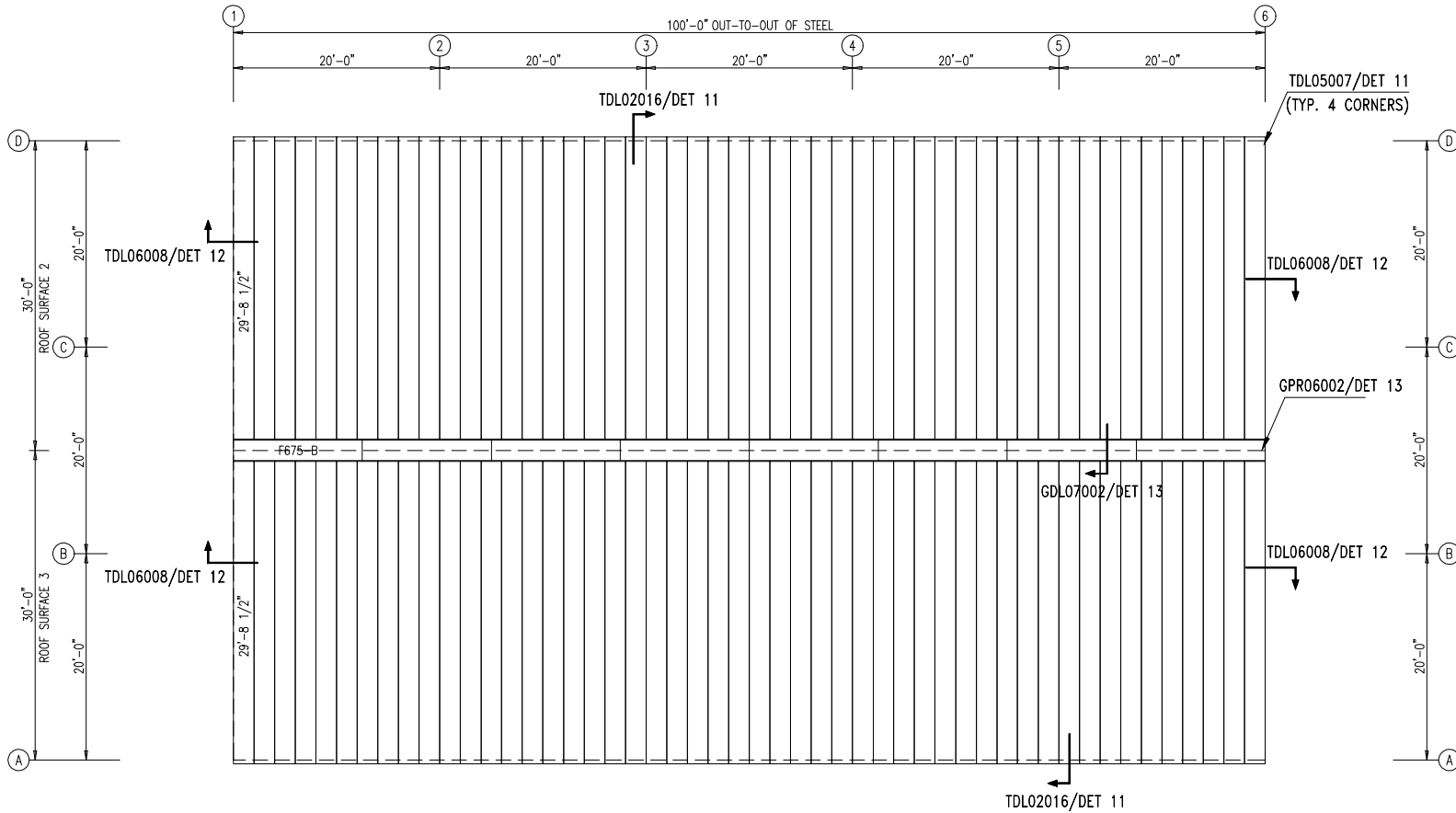


CONCRETE NOTCH DETAIL

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/28/22	FOR ERECTOR INSTALLATION	KD	HPD	EV

<b>TORO STEEL BUILDINGS</b> 1405 DENISON ST MARKHAM, ON L3R-5V2							
PROJECT: VINCENT BATTAGLIA				OWNER: VINCENT BATTAGLIA			
CUSTOMER: VINCENT BATTAGLIA							
LOCATION: MONROE, CT 06468							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/22	N.T.S.	1	A	18-B-46371	F1	0





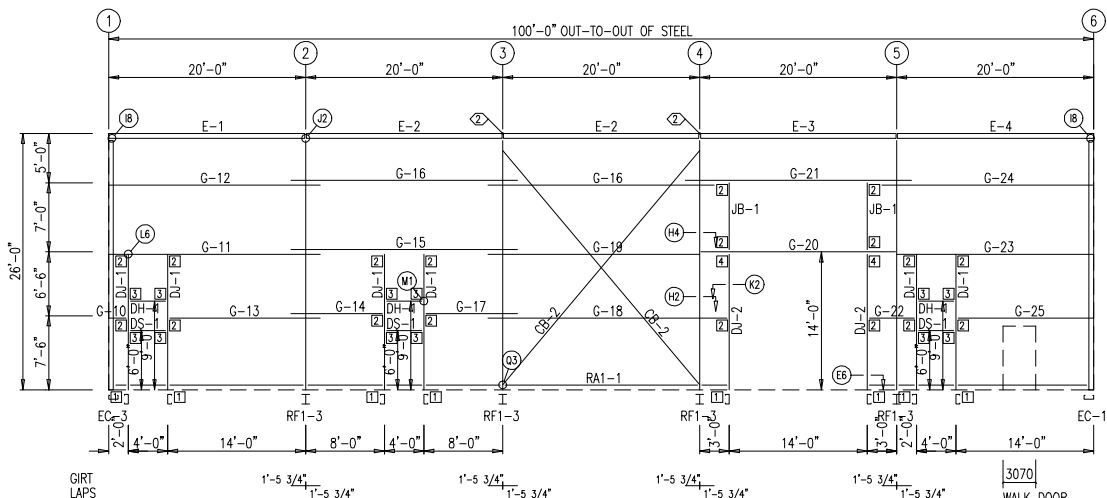
ROOF SHEETING PLAN  
 PANELS: 24 Gauge DOUBLE-LOK - Galvalume

- GENERAL NOTES:**
1. INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
  2. ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
  3. STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
  4. DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
  5. DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
  6. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

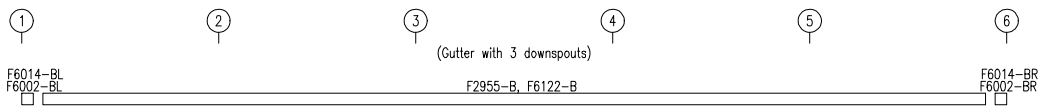
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/22	FOR CONSTRUCTION PERMIT	KD	HPD	EV

<b>TORO STEEL BUILDINGS</b>							
1405 DENISON ST MARKHAM, ON L3R-5V2							
PROJECT: VINCENT BATTAGLIA				OWNER: VINCENT BATTAGLIA			
CUSTOMER: VINCENT BATTAGLIA				OWNER: VINCENT BATTAGLIA			
LOCATION: MONROE, CT 06468							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/22	N.T.S.	1	A	18-B-46371	E2	A





SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Gauge PBR - Desert Sand

**DOWNSPOUT SPACING LOCATIONS**  
 DOWNSPOUTS ARE TO BE PLACED AT A SPACING NOT TO EXCEED 25 FT. WITH A DOWNSPOUT WITHIN 50 FT. OF EACH END OF THE GUTTER RUN. GUTTER STRAPS TO BE 2'-0" ON CENTER.

- GENERAL NOTES:**
- INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
  - WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
  - OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
  - AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/22	FOR CONSTRUCTION PERMIT	KD	HPD	EV

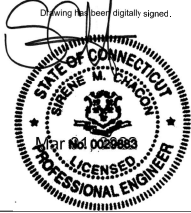
PROJECT: VINCENT BATTAGLIA		OWNER: VINCENT BATTAGLIA					
CUSTOMER: VINCENT BATTAGLIA		LOCATION: MONROE, CT 06468					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/22	N.T.S.	1	A	18-B-46371	E3	A

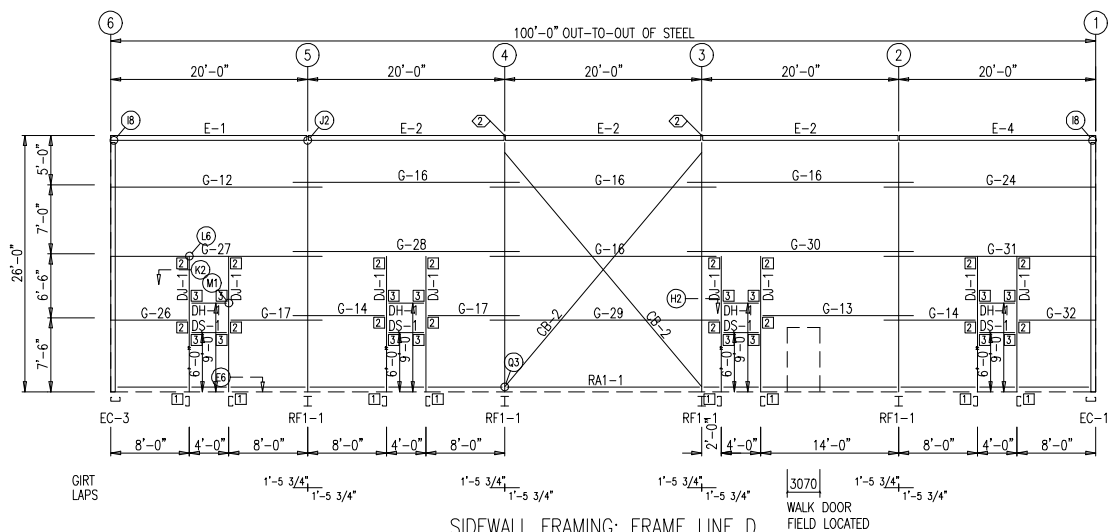
**TORO STEEL BUILDINGS**  
 1405 DENISON ST  
 MARKHAM, ON L3R-5V2

SPECIAL BOLTS	Q	Q	T	D	L	W
O ID	QUAN	TYPE	DIA	LENGTH	WASH	
2	2	A325	1/2"	1 1/4"	2	

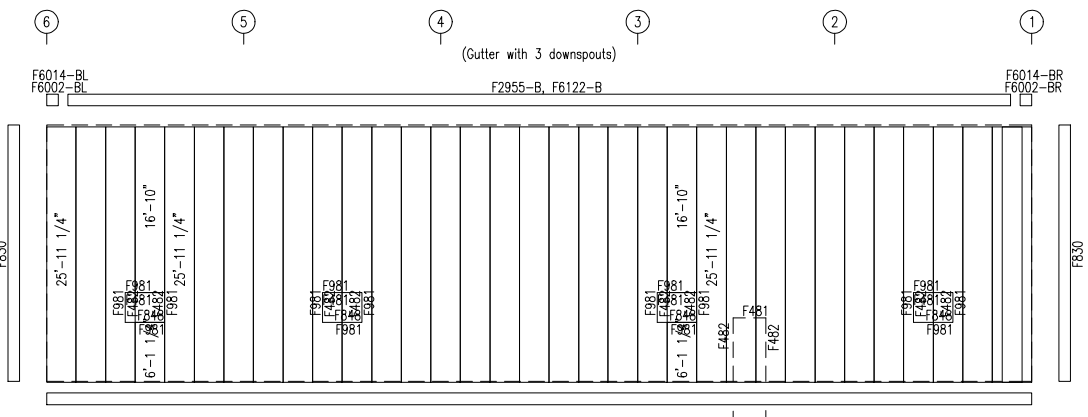
MEMBER TABLE		
MARK	PART	LENGTH
DJ-1	8X35C14	13'-7 3/4"
DJ-2	8X35C14	13'-11 3/4"
DH-1	8X35C14	3'-11 3/4"
DS-1	8X35C14	3'-11 3/4"
E-1	10ES1L14	19'-11 1/2"
E-2	10ES1L14	19'-11 1/2"
E-3	10ES1L14	19'-11 1/2"
E-4	10ES1L14	19'-11 1/2"
G-10	8X25Z16	1'-7 3/4"
G-11	8X35Z14	21'-5 1/2"
G-12	8X25Z16	21'-5 1/2"
G-13	8X25Z16	15'-1 3/4"
G-14	8X25Z16	9'-1 3/4"
G-15	8X35Z14	22'-11 1/2"
G-16	8X25Z16	22'-11 1/2"
G-17	8X25Z16	9'-1 3/4"
G-18	8X25Z14	24'-1 3/4"
G-19	8X35Z14	21'-5 1/2"
G-20	8X35C14	19'-11 1/2"
G-21	8X25Z16	22'-11 1/2"
G-22	8X25Z16	4'-4"
G-23	8X35Z12	19'-11 1/2"
G-24	8X25Z16	21'-5 1/2"
G-25	8X25Z16	13'-7 3/4"
CB-2	3/4" DIA. ROD	32'-0"
JB-1	8X35C14	6'-4"

CONNECTION PLATES	
FRAME LINE A	
ID	MARK/PART
1	CL753
2	CL751
3	SC425
4	CL750





SIDEWALL FRAMING: FRAME LINE D



SIDEWALL SHEETING & TRIM: FRAME LINE D

PANELS: 26 Gauge PBR - Desert Sand

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/22	FOR CONSTRUCTION PERMIT	KD	HPD	EV

<b>TORO STEEL BUILDINGS</b>							
1405 DENISON ST MARKHAM, ON L3R-5V2							
PROJECT: VINCENT BATTAGLIA				OWNER: VINCENT BATTAGLIA			
CUSTOMER: VINCENT BATTAGLIA				LOCATION: MONROE, CT 06468			
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/22	N.T.S.	1	A	18-B-46371	E4	A

- GENERAL NOTES:**
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
  2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
  3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
  4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

SPECIAL BOLTS	Q	QUAN	TYPE	DIA	LENGTH	WASH
	2	2	A325	1/2"	1 1/4"	2

MEMBER TABLE		
MARK	PART	LENGTH
DJ-1	8X35C14	13'-7 3/4"
DH-1	8X35C14	3'-11 3/4"
DS-1	8X35C14	3'-11 3/4"
E-1	10E51L14	19'-11 1/2"
E-2	10E51L14	19'-11 1/2"
E-4	10E51L14	19'-11 1/2"
G-12	8X25Z16	21'-5 1/2"
G-13	8X25Z16	15'-1 3/4"
G-14	8X25Z16	9'-1 3/4"
G-16	8X25Z16	22'-11 1/2"
G-17	8X25Z16	9'-1 3/4"
G-24	8X25Z16	21'-5 1/2"
G-26	8X25Z16	7'-7 3/4"
G-27	8X25Z16	21'-5 1/2"
G-28	8X25Z14	22'-11 1/2"
G-29	8X25Z14	23'-1 3/4"
G-30	8X25Z14	22'-11 1/2"
G-31	8X25Z13	21'-5 1/2"
G-32	8X25Z16	7'-7 3/4"
CB-2	3/4" DIA. ROD	32'-0"

CONNECTION PLATES	
FRAME LINE	D
ID	MARK/PART
1	CL753
2	CL751
3	SC425



**BEARING FRAME ONLY!**  
 WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE. WASHER NOT NEEDED ON CLIP SIDE.

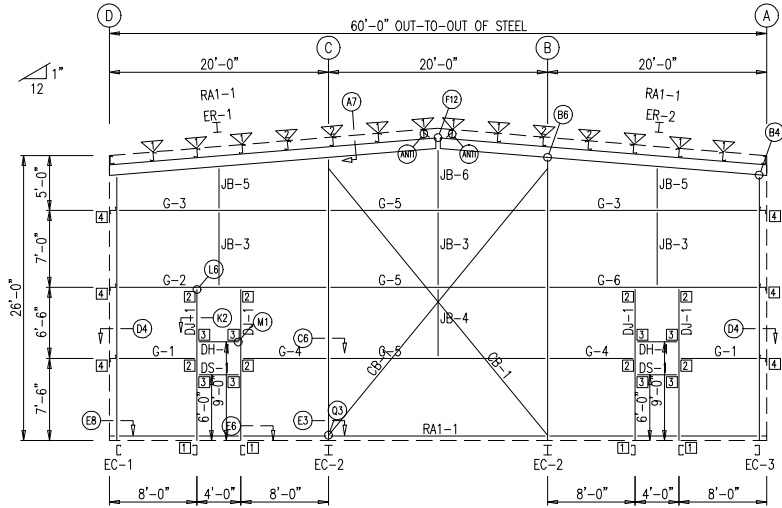
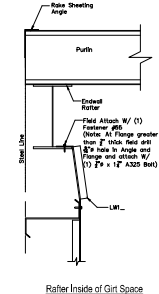
BOLT TABLE				
FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	5/8"	1 3/4"
Columns/Raf	4	A325	1/2"	1 1/4"

MEMBER TABLE			
FRAME LINE 1			
MARK	PART	LENGTH	
EC-1	12F35C12	24'-5 1/2"	
EC-2	W12X14	26'-0 13/16"	
EC-3	12F35C12	24'-5 1/2"	
ER-1	WBX10	30'-1"	
ER-2	WBX10	30'-1"	
DJ-1	8X35C14	13'-7 3/4"	
DH-1	8X35C14	3'-11 3/4"	
DS-1	8X35C14	3'-11 3/4"	
G-1	8X25Z16	6'-7 3/4"	
G-2	8X52Z12	18'-7 3/4"	
G-3	8X35Z13	18'-7 3/4"	
G-4	8X25Z16	7'-4"	
G-5	8X35Z13	19'-4"	
G-6	8X35Z12	18'-7 3/4"	
CB-1	1/2" DIA. ROD	32'-5"	
JB-3	LW1	7'-0"	
JB-5	LW1	4'-3 13/16"	
JB-4	LW1	6'-6"	
JB-6	LW1	5'-11 13/16"	

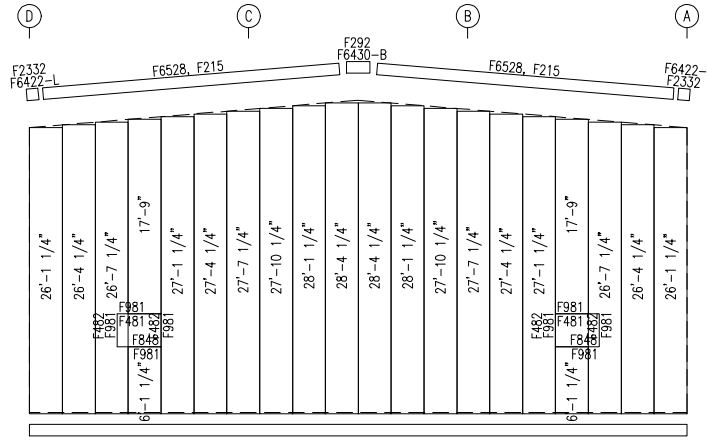
FLANGE BRACE TABLE		
FRAME LINE 1		
∇ ID	PART	LENGTH
1	FB29.5	L2X2X14G 2'-5 1/2"
2	FB7-1	L2.5X2.5X3/16 2'-5 1/2"

CONNECTION PLATES		
FRAME LINE 1		
ID	MARK	PART
1	CL753	
2	CL751	
3	SC425	
4	SC5	

Sag Angle Attachment at Endwall Rake

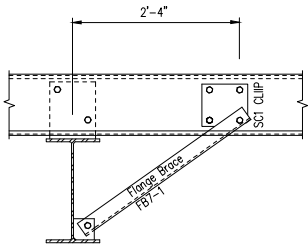


ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Gauge PBR - Desert Sand



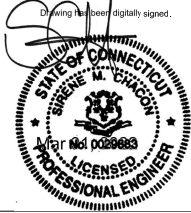
- GENERAL NOTES:**
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
  2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
  3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
  4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/22	FOR CONSTRUCTION PERMIT	KD	HPD	EV

**TORO STEEL BUILDINGS**  
 1405 DENISON ST  
 MARKHAM, ON L3R-5V2

PROJECT: VINCENT BATTAGLIA  
 CUSTOMER: VINCENT BATTAGLIA      OWNER: VINCENT BATTAGLIA  
 LOCATION: MONROE, CT 06468

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/22	N.T.S.	1	A	18-B-46371	E5	A



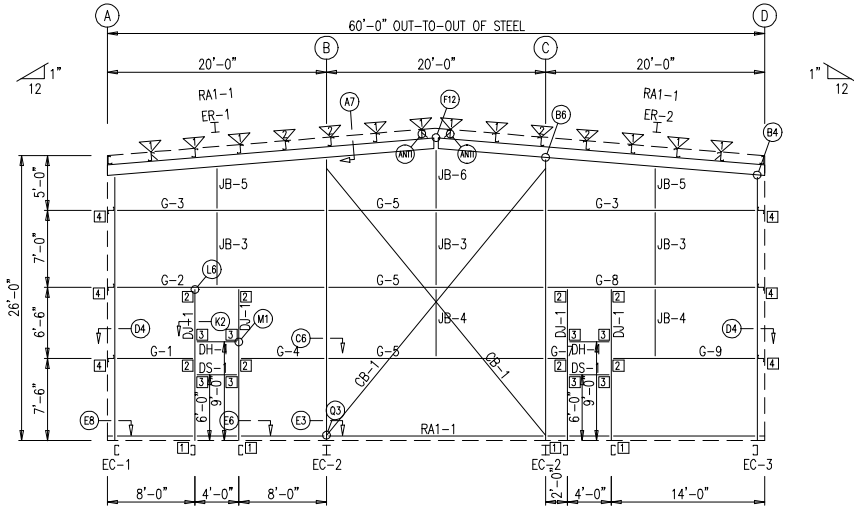
**BEARING FRAME ONLY!**  
 WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE. WASHER NOT NEEDED ON CLIP SIDE.

BOLT TABLE FRAME LINE 6				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2 Columns/Raf	8	A325	5/8"	1 3/4"
	4	A325	1/2"	1 1/4"

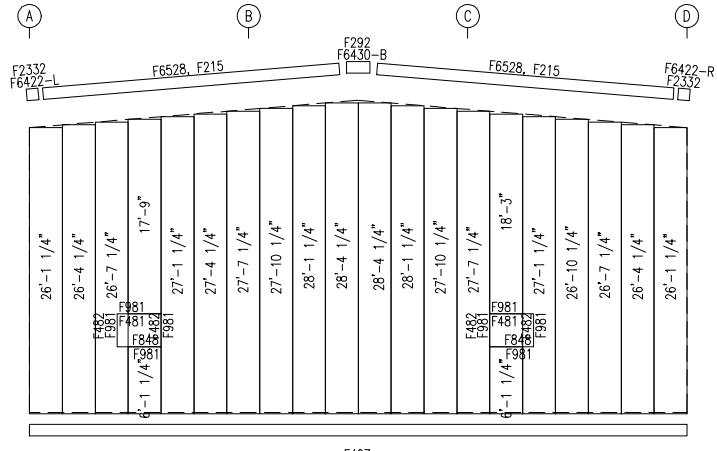
MEMBER TABLE FRAME LINE 6		
MARK	PART	LENGTH
EC-1	12F35C12	24'-5 1/2"
EC-2	W12X14	26'-0 13/16"
EC-3	12F35C12	24'-5 1/2"
ER-1	WBX10	30'-1"
ER-2	WBX10	30'-1"
DJ-1	8X35C14	13'-7 3/4"
DH-1	8X35C14	3'-11 3/4"
DS-1	8X35C14	3'-11 3/4"
G-1	8X25Z16	6'-7 3/4"
G-2	8X52Z12	18'-7 3/4"
G-3	8X35Z13	18'-7 3/4"
G-4	8X25Z16	7'-4"
G-5	8X35Z13	19'-4"
G-6	8X25Z16	1'-4"
G-7	8X25Z12	18'-7 3/4"
G-8	8X25Z16	12'-7 3/4"
G-9	8X25Z16	12'-7 3/4"
CB-1	1/2" DIA. ROD	32'-5"
JB-3	LW1	7'-0"
JB-5	LW1	4'-3 13/16"
JB-4	LW1	6'-6"
JB-6	LW1	5'-11 13/16"

FLANGE BRACE TABLE FRAME LINE 6			
▽ ID	PART	LENGTH	
1	FB29.5	L2X2X14G	2'-5 1/2"
2	FB7-1	L2.5X2.5X3/16	2'-5 1/2"

CONNECTION PLATES FRAME LINE 6		
CLID	MARK/PART	
1	CL753	
2	CL751	
3	SC25	
4	SC5	

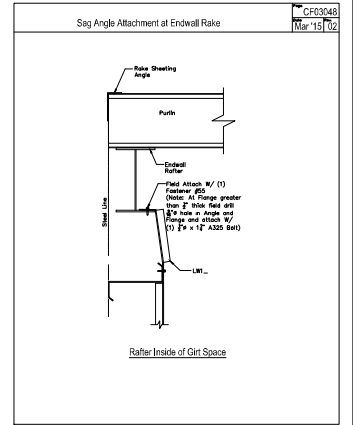
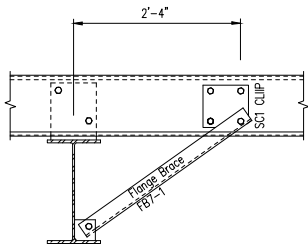


ENDWALL FRAMING: FRAME LINE 6



ENDWALL SHEETING & TRIM: FRAME LINE 6

PANELS: 26 Gauge PBR - Desert Sand



**GENERAL NOTES:**

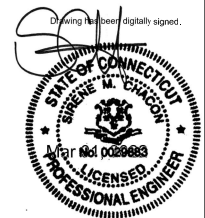
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/22	FOR CONSTRUCTION PERMIT	KD	HPD	EV

**TORO STEEL BUILDINGS**  
 1405 DENISON ST  
 MARKHAM, ON L3R-5V2

PROJECT: VINCENT BATTAGLIA  
 CUSTOMER: VINCENT BATTAGLIA  
 OWNER: VINCENT BATTAGLIA  
 LOCATION: MONROE, CT 06468

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/22	N.T.S.	1	A	18-B-46371	E6	A



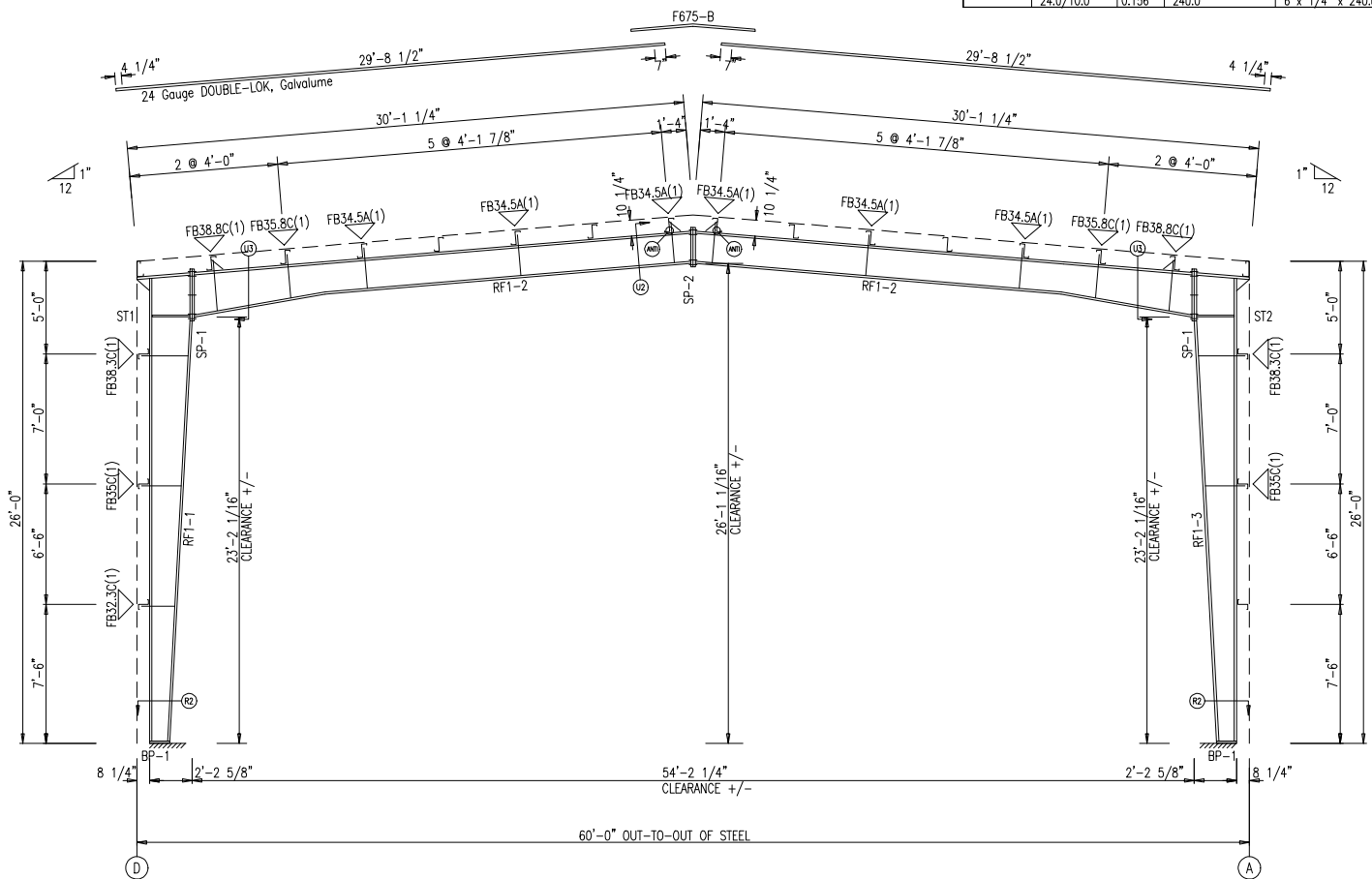
SPlice PLATE & BOLT TABLE									
Mark	Qty		Int	Type	Dia	Length	Width	Thick	Length
	Top	Bot							
SP-1	4	4	2	A325	3/4"	2 1/2"	6"	3/4"	2'-9"
SP-2	4	4	0	A325	3/4"	2 1/2"	6"	3/4"	2'-0 7/8"

STIFFENER TABLE				
Mark	Stiff Mark	Plate Size		Length
		Width	Thick	
RF1-1	ST1	2 1/2	1/4"	26"
RF1-3	ST2	2 1/2	1/4"	26"

BASE PLATE TABLE			
Col Mark	Plate Size		
	Width	Thick	Length
BP-1	6"	5/8"	11"

FLANGE BRACES: FBxx (1 or 2)  
 xx=length(in)  
 (1) One Side; (2) Two Sides  
 C - L2X2X1/8  
 A - L2X2X1/4

MEMBER TABLE					
Mark	Web Depth		Web Plate		Outside Flange W x Thk x Length
	Start/End	Thick	Length	Thick	
RF1-1	10.0/24.0	0.156	240.0	0.156	6 x 1/4" x 240.0
	24.0/26.0	0.156	34.2	0.185	6 x 1/4" x 61.5
RF1-2	26.0/26.0	0.185	29.5	0.156	6 x 1/4" x 34.6
	26.0/18.0	0.185	86.5	0.156	6 x 1/4" x 84.4
RF1-3	18.0/18.0	0.156	240.0	0.156	6 x 5/16" x 120.0
	26.0/26.0	0.185	29.5	0.156	6 x 1/4" x 34.6
RF1-3	26.0/24.0	0.156	34.2	0.156	6 x 1/4" x 61.5
	24.0/10.0	0.156	240.0	0.156	6 x 1/4" x 240.0



**GENERAL NOTES:**  
 1. BOLTED JOINTS WITH A325 TYPE 1 BOLTS GREATER THAN 1/2" DIAMETER ARE SPECIFIED AS PRE-TENSIONED JOINTS IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE RSCC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRE-TENSIONING CAN BE ACCOMPLISHED BY USING THE TURN-OF-NUT METHOD OF TIGHTENING, CALIBRATED WRENCH, TWIST-OFF TYPE TENSION-CONTROL BOLTS OR DIRECT-TENSION-INDICATOR AS ACCEPTABLE TO THE INSPECTING AGENCY AND BUILDING OFFICIAL. INSTALLATION INSPECTION REQUIREMENTS FOR PRE-TENSIONED JOINTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.2) USING TURN-OF-NUT/CALIBRATED WRENCH/TWIST OFF TYPE TENSION CONTROL BOLTS/DIRECT TENSION INDICATOR] METHOD IS SUGGESTED. THE CONNECTIONS ON THIS PROJECT ARE NOT SLIP CRITICAL.  
 2. ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 BOLTS.  
 3. INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/22	FOR CONSTRUCTION PERMIT	KD	HPD	EV

**TORO STEEL BUILDINGS**  
 1405 DENISON ST  
 MARKHAM, ON L3R-5V2

PROJECT: VINCENT BATTAGLIA  
 CUSTOMER: VINCENT BATTAGLIA      OWNER: VINCENT BATTAGLIA  
 LOCATION: MONROE, CT 06468

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/22	N.T.S.	1	A	18-B-46371	E7	A



# STORMWATER MANAGEMENT PLAN

FOR

## 67 ENTERPRISE DRIVE

MONROE, CONNECTICUT

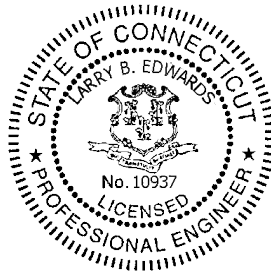
December 13, 2021

REV. 02-28-2022

REV 05-07-2022



Prepared by  
J. Edwards & Associates, LLC  
227 Stepney Road, Easton, CT 06612



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Larry Edwards P.E. #10937

## PROJECT NARRATIVE

This project consists of a 3.6 acre lot located in the Enterprise Industrial park. The site contains an existing building and associated site improvements. It is proposed to construct a 3300sf addition to the existing building and a new 6000sf building, both of which will be used for storage. A portion of building footprint is paved with the remainder consisting of grass and woods. The SCS soil maps indicate a soil group B.

All of the new impervious area will be collected by roof drains and discharged to a new stormwater detention system. The overflow from the system will be directed to the wetland at the rear of the existing building.

The study area for the attached analysis includes the roof area of the new buildings and paved areas only. The remainder of the site is controlled by an existing drainage system which will not be negatively impacted by the new building.

The drainage analysis for the project was performed using the SCS TR55 computer model using NOAA IDF data. Storm frequencies of 2, 10, 25 and 100 years have been evaluated. The basin outlet has been sized to handle a 100 year storm.

## STORM WATER QUALITY CALCULATIONS

### Water Quality Volume

This site is a retrofit of an existing developed site. The stormwater quality analysis was calculated for the new buildings and pavement areas only.

$$WQV = (1")(R)(A)/12$$

$$\text{Total impervious area} = 11,369\text{sf (0.26ac)}$$

$$R = (0.05) + (0.009)(\% \text{ impervious}) = 0.95$$

$$WQV = 1 \times 0.95 \times 0.26/12 = 897\text{cf required} \quad 994\text{cf provided}$$

## STORMWATER OUTFLOW

	2 YR EXIST	<b>2 YR PROP</b>	10 YR EXIST	<b>10 YR PROP</b>	25 YR EXIST	<b>25 YR PROP</b>	100 YR EXIST	<b>100 YR PROP</b>
	0.23	<b>0.34</b>	0.63	<b>0.56</b>	0.91	<b>0.74</b>	1.37	<b>0.90</b>

### Outlet Protection

The water quality basin outlet will be protected with a rip rap pad sized in accordance with the Connecticut Erosion Control guidelines

$$\text{LENGTH} = L_a = 1.7(Q) / (D_o)^{3/2} + 8(D_o)$$

$$\text{WIDTH} = 3(D_o) + L_a$$

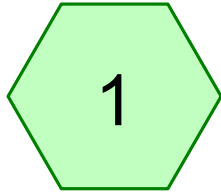
WQ BASIN A

Q<sub>25yr</sub> = .71 cfs outlet pipe 5"

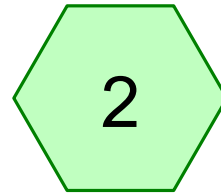
$$L_a = (1.7)(0.71)/(0.41) + .8(0.26) = 5' \text{ (8' provided)}$$

$$W = 3(0.41) + 5 = 6.2 \text{ (8' provided)}$$

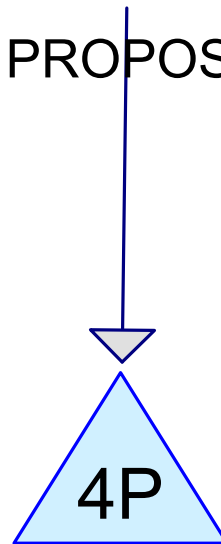
$$V = 2.25/13 = 0.2 \text{ fps}$$



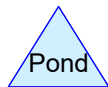
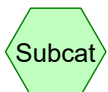
EXISTING Q NEW  
BUILDING



Q PROPOSED



PROPOSED  
DETENTION SYSTEM



**Routing Diagram for 2893-ALT-24**

Prepared by J EDWARDS ASSOCAITES LLC, Printed 5/7/2022  
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**2893-ALT-24**

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**Rainfall Events Listing**

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2 yr	Type III 24-hr		Default	24.00	1	3.59	2
2	10 yr	Type III 24-hr		Default	24.00	1	5.58	2
3	25 yr	Type III 24-hr		Default	24.00	1	6.82	2
4	100 yr	Type III 24-hr		Default	24.00	1	8.73	2

**Area Listing (all nodes)**

Area (acres)	CN	Description (subcatchment-numbers)
0.018	98	Paved parking, HSG B (1)
0.261	98	Unconnected pavement, HSG B (2)
0.243	65	Woods/grass comb., Fair, HSG B (1)
<b>0.522</b>	<b>83</b>	<b>TOTAL AREA</b>

**Soil Listing (all nodes)**

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.522	HSG B	1, 2
0.000	HSG C	
0.000	HSG D	
0.000	Other	
<b>0.522</b>		<b>TOTAL AREA</b>

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**Ground Covers (all nodes)**

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.018	0.000	0.000	0.000	0.018	Paved parking	1
0.000	0.261	0.000	0.000	0.000	0.261	Unconnected pavement	2
0.000	0.243	0.000	0.000	0.000	0.243	Woods/grass comb., Fair	1
<b>0.000</b>	<b>0.522</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.522</b>	<b>TOTAL AREA</b>	

**2893-ALT-24**

Type III 24-hr 2 yr Rainfall=3.59"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1: EXISTING Q NEW** Runoff Area=11,370 sf 7.04% Impervious Runoff Depth>0.81"  
Flow Length=100' Slope=0.3000 '/' Tc=7.2 min CN=67 Runoff=0.23 cfs 0.018 af

**Subcatchment 2: Q PROPOSED** Runoff Area=11,370 sf 100.00% Impervious Runoff Depth>3.13"  
Tc=5.0 min CN=98 Runoff=0.92 cfs 0.068 af

**Pond 4P: PROPOSED DETENTION SYSTEM** Peak Elev=448.47' Storage=1,584 cf Inflow=0.92 cfs 0.068 af  
Outflow=0.34 cfs 0.043 af

**Total Runoff Area = 0.522 ac Runoff Volume = 0.086 af Average Runoff Depth = 1.97"**  
**46.48% Pervious = 0.243 ac 53.52% Impervious = 0.279 ac**

**Summary for Subcatchment 1: EXISTING Q NEW BUILDING**

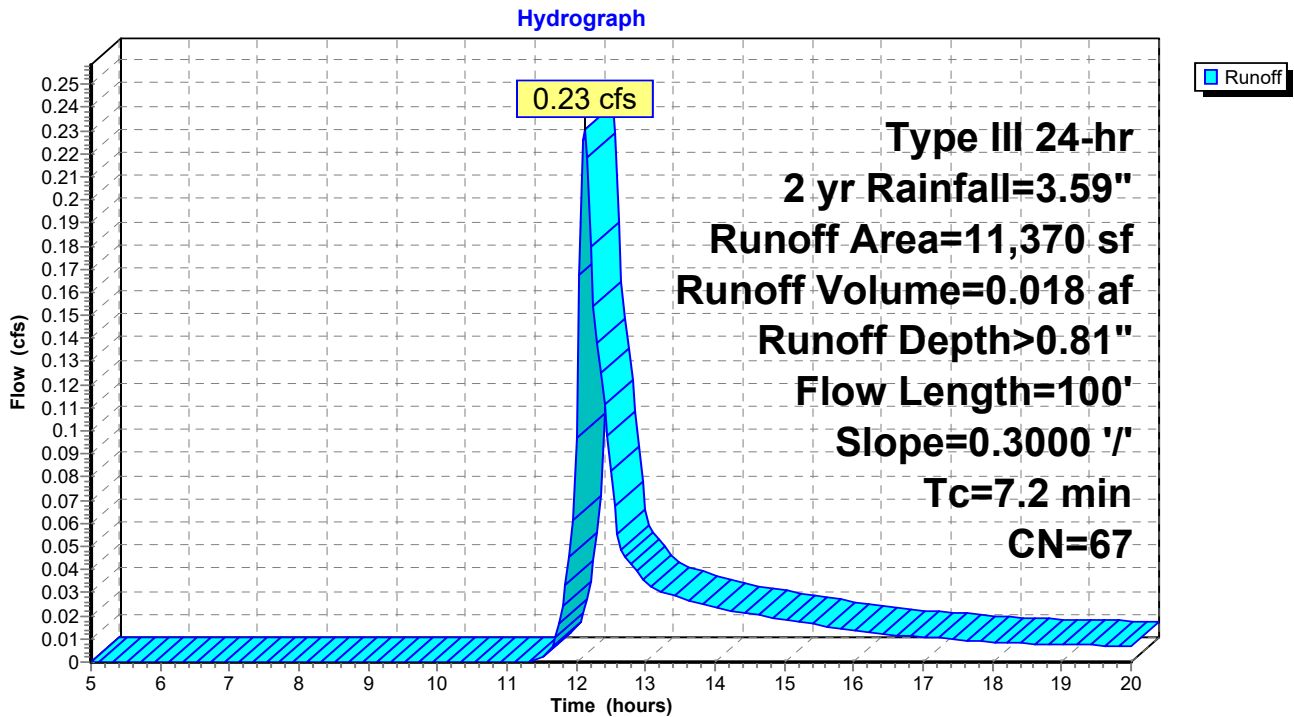
Runoff = 0.23 cfs @ 12.12 hrs, Volume= 0.018 af, Depth> 0.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Type III 24-hr 2 yr Rainfall=3.59"

Area (sf)	CN	Description
800	98	Paved parking, HSG B
10,570	65	Woods/grass comb., Fair, HSG B
11,370	67	Weighted Average
10,570		92.96% Pervious Area
800		7.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.3000	0.23		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.30"

**Subcatchment 1: EXISTING Q NEW BUILDING**



**Summary for Subcatchment 2: Q PROPOSED**

Runoff = 0.92 cfs @ 12.07 hrs, Volume= 0.068 af, Depth> 3.13"

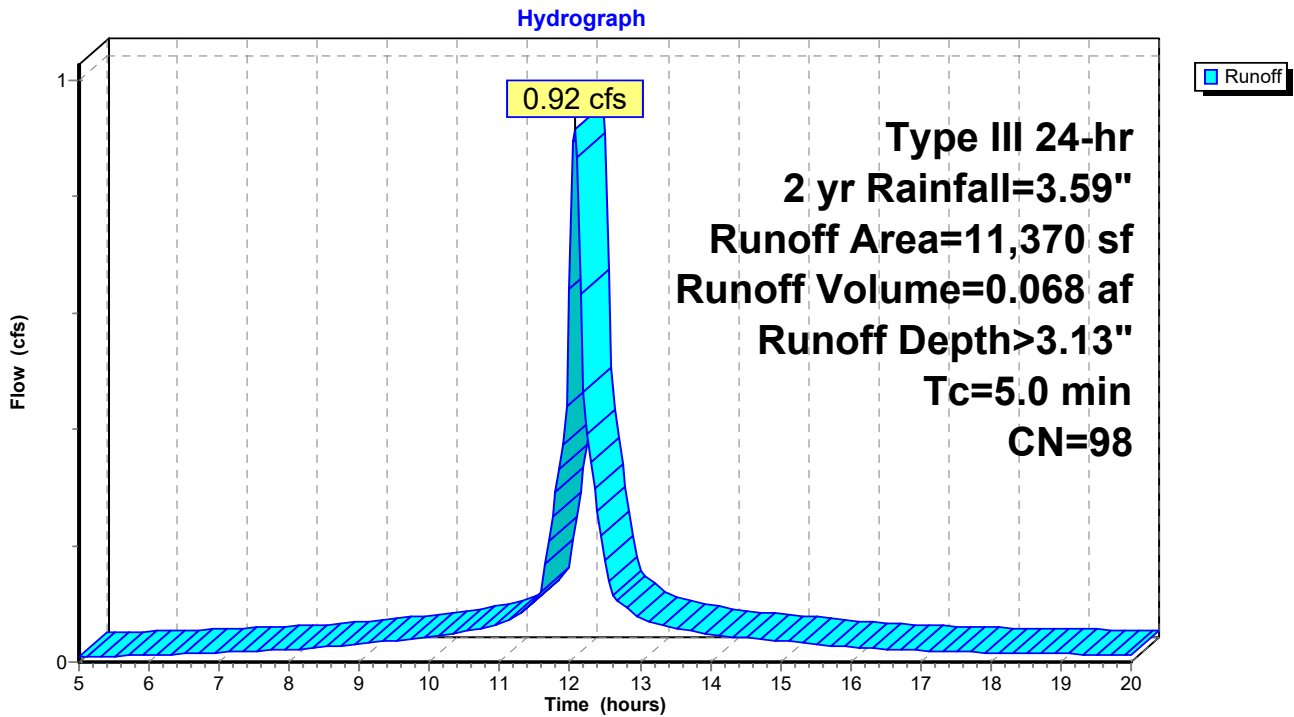
Routed to Pond 4P : PROPOSED DETENTION SYSTEM

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Type III 24-hr 2 yr Rainfall=3.59"

Area (sf)	CN	Description
11,370	98	Unconnected pavement, HSG B
11,370		100.00% Impervious Area
11,370		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

**Subcatchment 2: Q PROPOSED**



**Summary for Pond 4P: PROPOSED DETENTION SYSTEM**

Inflow Area = 0.261 ac, 100.00% Impervious, Inflow Depth > 3.13" for 2 yr event  
 Inflow = 0.92 cfs @ 12.07 hrs, Volume= 0.068 af  
 Outflow = 0.34 cfs @ 12.31 hrs, Volume= 0.043 af, Atten= 63%, Lag= 14.2 min  
 Primary = 0.34 cfs @ 12.31 hrs, Volume= 0.043 af  
 Routed to nonexistent node 5R

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Peak Elev= 448.47' @ 12.31 hrs Surf.Area= 1,680 sf Storage= 1,584 cf

Plug-Flow detention time= 170.1 min calculated for 0.043 af (63% of inflow)  
 Center-of-Mass det. time= 95.2 min ( 831.9 - 736.8 )

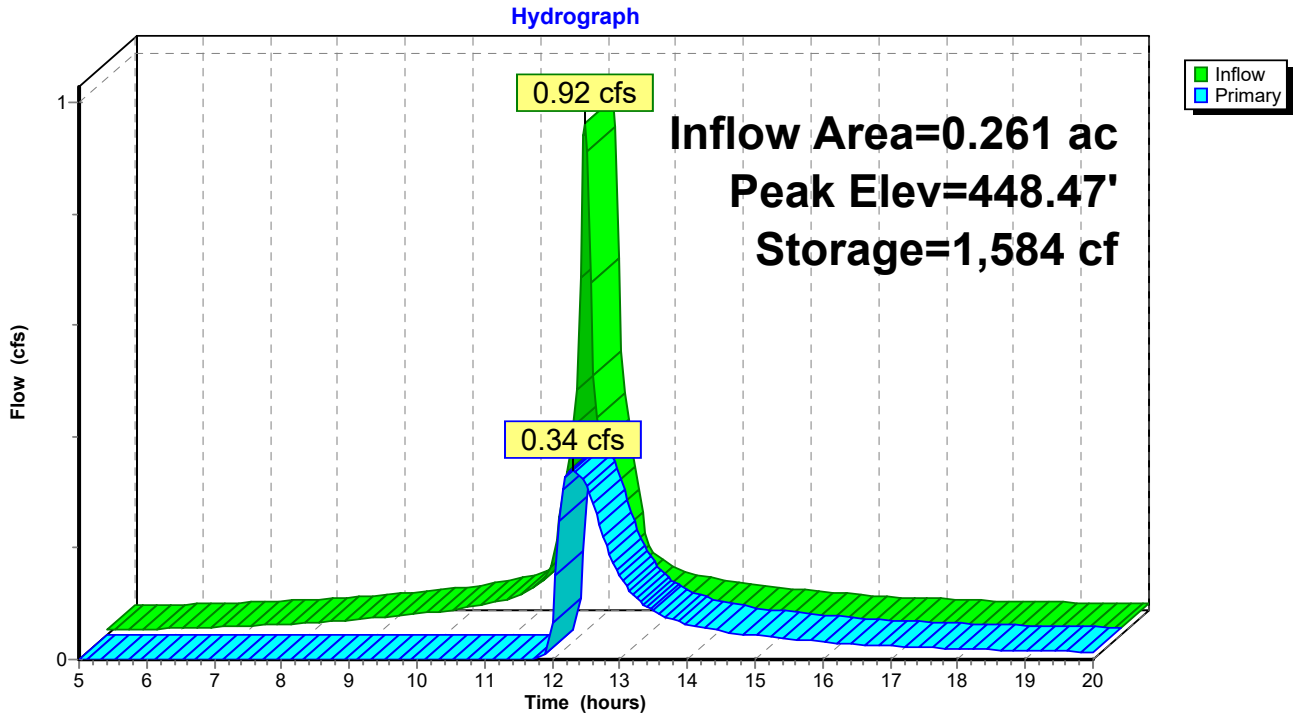
Volume	Invert	Avail.Storage	Storage Description
#1A	447.20'	952 cf	<b>28.00'W x 60.00'L x 3.00'H Field A</b> 5,040 cf Overall - 2,661 cf Embedded = 2,379 cf x 40.0% Voids
#2A	447.20'	1,903 cf	<b>Concrete Galley 4x8x2 x 42 Inside #1</b> Inside= 42.0"W x 21.0"H => 6.04 sf x 7.50'L = 45.3 cf Outside= 48.0"W x 24.0"H => 7.92 sf x 8.00'L = 63.4 cf 42 Chambers in 6 Rows
		2,854 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	448.00'	<b>5.0" Vert. 5"</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.34 cfs @ 12.31 hrs HW=448.47' (Free Discharge)  
 ↑1=5" (Orifice Controls 0.34 cfs @ 2.48 fps)

### Pond 4P: PROPOSED DETENTION SYSTEM



**2893-ALT-24**

Type III 24-hr 10 yr Rainfall=5.58"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1: EXISTING Q NEW** Runoff Area=11,370 sf 7.04% Impervious Runoff Depth>2.04"  
Flow Length=100' Slope=0.3000 '/' Tc=7.2 min CN=67 Runoff=0.63 cfs 0.044 af

**Subcatchment 2: Q PROPOSED** Runoff Area=11,370 sf 100.00% Impervious Runoff Depth>4.95"  
Tc=5.0 min CN=98 Runoff=1.44 cfs 0.108 af

**Pond 4P: PROPOSED DETENTION SYSTEM** Peak Elev=448.93' Storage=2,130 cf Inflow=1.44 cfs 0.108 af  
Outflow=0.56 cfs 0.082 af

**Total Runoff Area = 0.522 ac Runoff Volume = 0.152 af Average Runoff Depth = 3.49"**  
**46.48% Pervious = 0.243 ac 53.52% Impervious = 0.279 ac**

**Summary for Subcatchment 1: EXISTING Q NEW BUILDING**

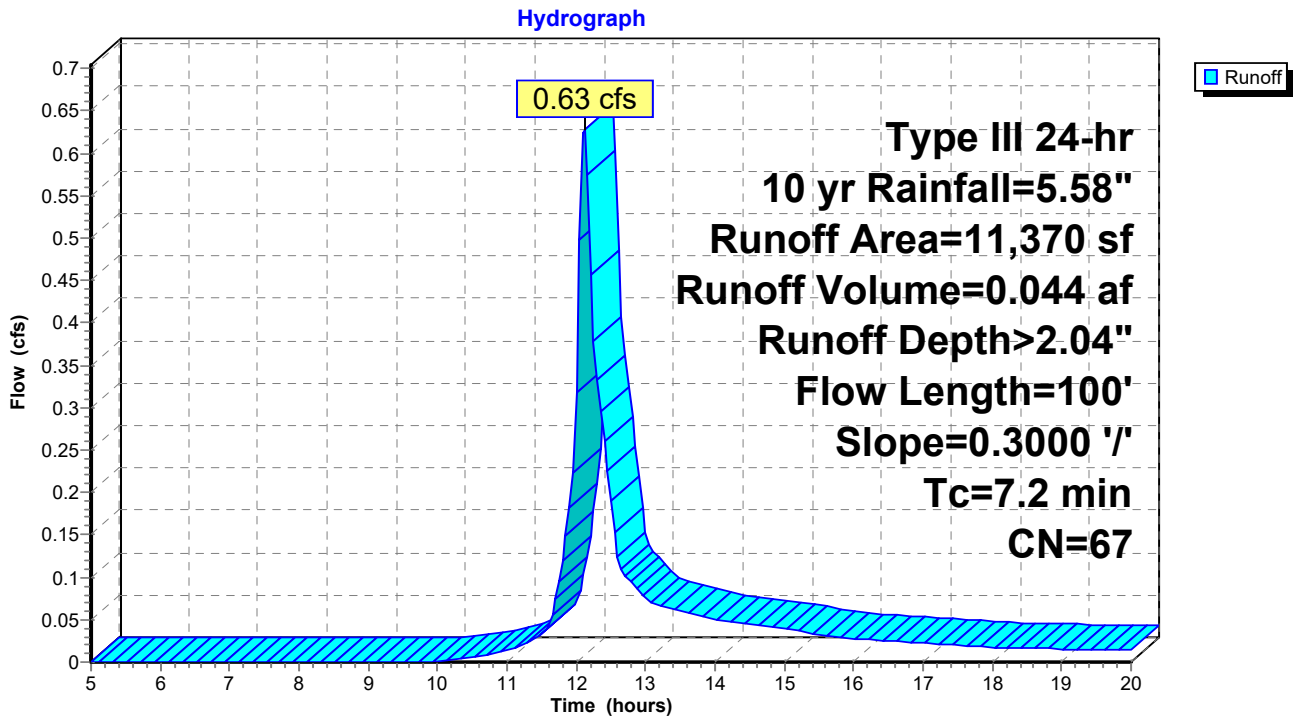
Runoff = 0.63 cfs @ 12.11 hrs, Volume= 0.044 af, Depth> 2.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Type III 24-hr 10 yr Rainfall=5.58"

Area (sf)	CN	Description
800	98	Paved parking, HSG B
10,570	65	Woods/grass comb., Fair, HSG B
11,370	67	Weighted Average
10,570		92.96% Pervious Area
800		7.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.3000	0.23		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.30"

**Subcatchment 1: EXISTING Q NEW BUILDING**



**Summary for Subcatchment 2: Q PROPOSED**

Runoff = 1.44 cfs @ 12.07 hrs, Volume= 0.108 af, Depth> 4.95"

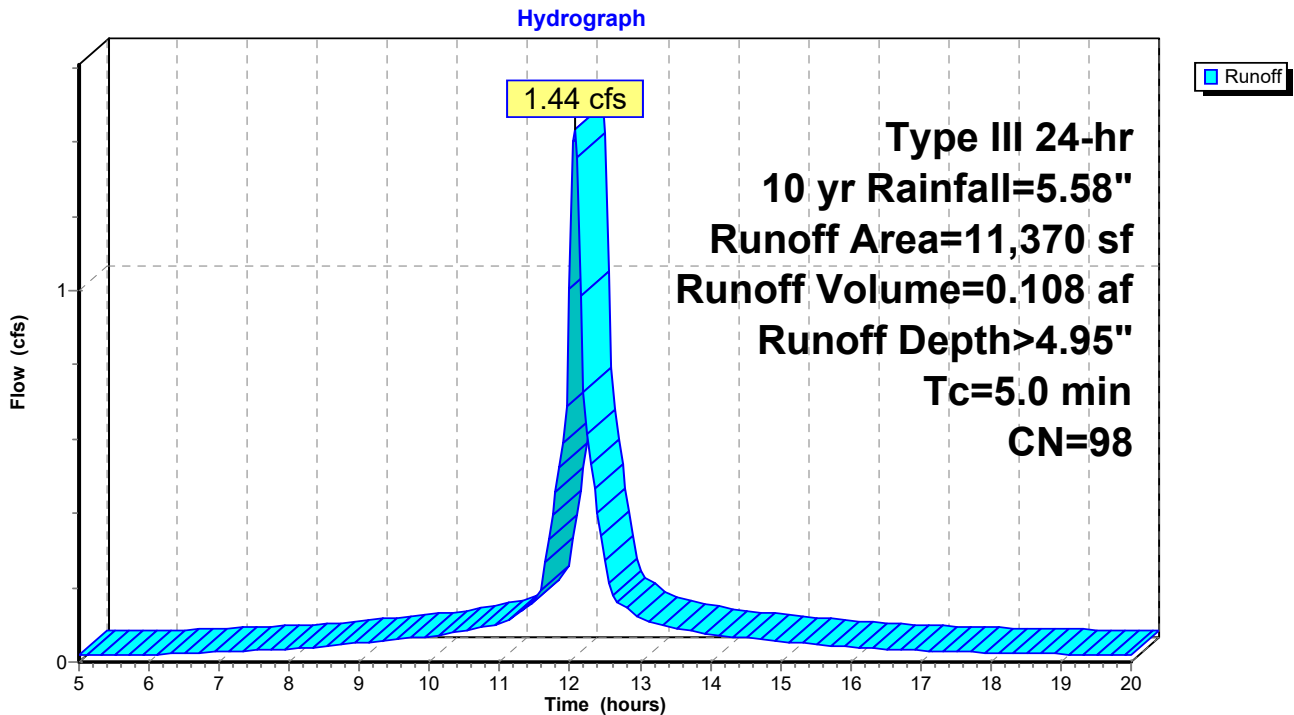
Routed to Pond 4P : PROPOSED DETENTION SYSTEM

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Type III 24-hr 10 yr Rainfall=5.58"

Area (sf)	CN	Description
11,370	98	Unconnected pavement, HSG B
11,370		100.00% Impervious Area
11,370		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

**Subcatchment 2: Q PROPOSED**



**Summary for Pond 4P: PROPOSED DETENTION SYSTEM**

Inflow Area = 0.261 ac, 100.00% Impervious, Inflow Depth > 4.95" for 10 yr event  
 Inflow = 1.44 cfs @ 12.07 hrs, Volume= 0.108 af  
 Outflow = 0.56 cfs @ 12.29 hrs, Volume= 0.082 af, Atten= 61%, Lag= 12.9 min  
 Primary = 0.56 cfs @ 12.29 hrs, Volume= 0.082 af  
 Routed to nonexistent node 5R

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Peak Elev= 448.93' @ 12.29 hrs Surf.Area= 1,680 sf Storage= 2,130 cf

Plug-Flow detention time= 139.8 min calculated for 0.082 af (76% of inflow)  
 Center-of-Mass det. time= 79.6 min ( 813.3 - 733.8 )

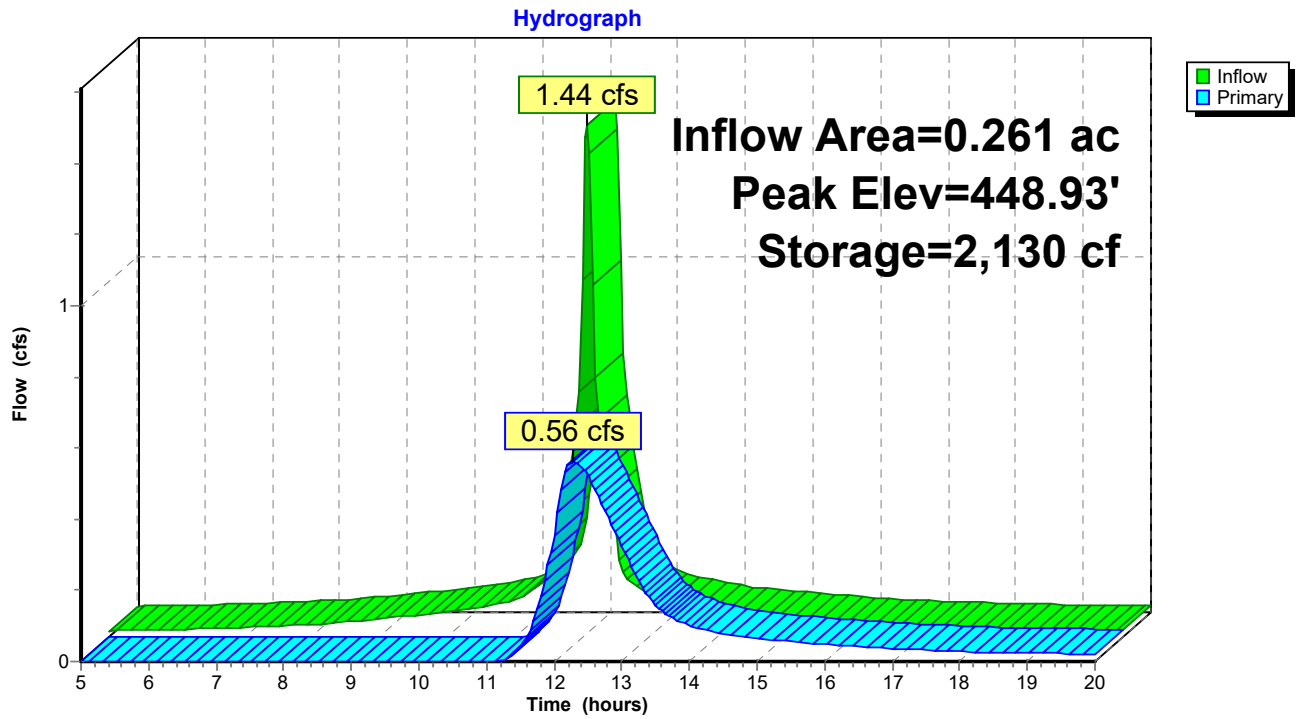
Volume	Invert	Avail.Storage	Storage Description
#1A	447.20'	952 cf	<b>28.00'W x 60.00'L x 3.00'H Field A</b> 5,040 cf Overall - 2,661 cf Embedded = 2,379 cf x 40.0% Voids
#2A	447.20'	1,903 cf	<b>Concrete Galley 4x8x2 x 42</b> Inside #1 Inside= 42.0"W x 21.0"H => 6.04 sf x 7.50'L = 45.3 cf Outside= 48.0"W x 24.0"H => 7.92 sf x 8.00'L = 63.4 cf 42 Chambers in 6 Rows
		2,854 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	448.00'	<b>5.0" Vert. 5"</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.56 cfs @ 12.29 hrs HW=448.93' (Free Discharge)  
 ↑1=5" (Orifice Controls 0.56 cfs @ 4.10 fps)

### Pond 4P: PROPOSED DETENTION SYSTEM



**2893-ALT-24***Type III 24-hr 25 yr Rainfall=6.82"*

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1: EXISTING Q NEW** Runoff Area=11,370 sf 7.04% Impervious Runoff Depth>2.93"  
Flow Length=100' Slope=0.3000 '/' Tc=7.2 min CN=67 Runoff=0.91 cfs 0.064 af

**Subcatchment 2: Q PROPOSED** Runoff Area=11,370 sf 100.00% Impervious Runoff Depth>6.07"  
Tc=5.0 min CN=98 Runoff=1.76 cfs 0.132 af

**Pond 4P: PROPOSED DETENTION SYSTEM** Peak Elev=449.49' Storage=2,374 cf Inflow=1.76 cfs 0.132 af  
Outflow=0.74 cfs 0.107 af

**Total Runoff Area = 0.522 ac Runoff Volume = 0.196 af Average Runoff Depth = 4.50"**  
**46.48% Pervious = 0.243 ac 53.52% Impervious = 0.279 ac**

**Summary for Subcatchment 1: EXISTING Q NEW BUILDING**

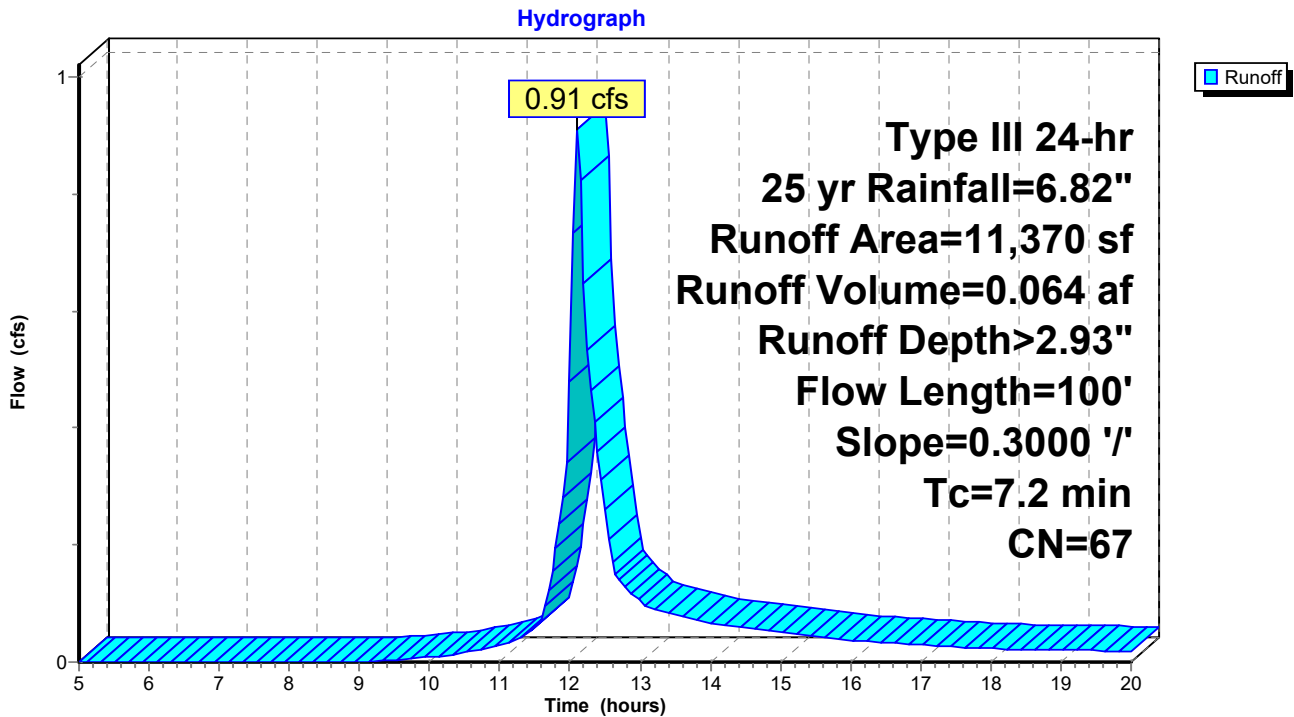
Runoff = 0.91 cfs @ 12.11 hrs, Volume= 0.064 af, Depth> 2.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Type III 24-hr 25 yr Rainfall=6.82"

Area (sf)	CN	Description
800	98	Paved parking, HSG B
10,570	65	Woods/grass comb., Fair, HSG B
11,370	67	Weighted Average
10,570		92.96% Pervious Area
800		7.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.3000	0.23		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.30"

**Subcatchment 1: EXISTING Q NEW BUILDING**



**Summary for Subcatchment 2: Q PROPOSED**

Runoff = 1.76 cfs @ 12.07 hrs, Volume= 0.132 af, Depth> 6.07"

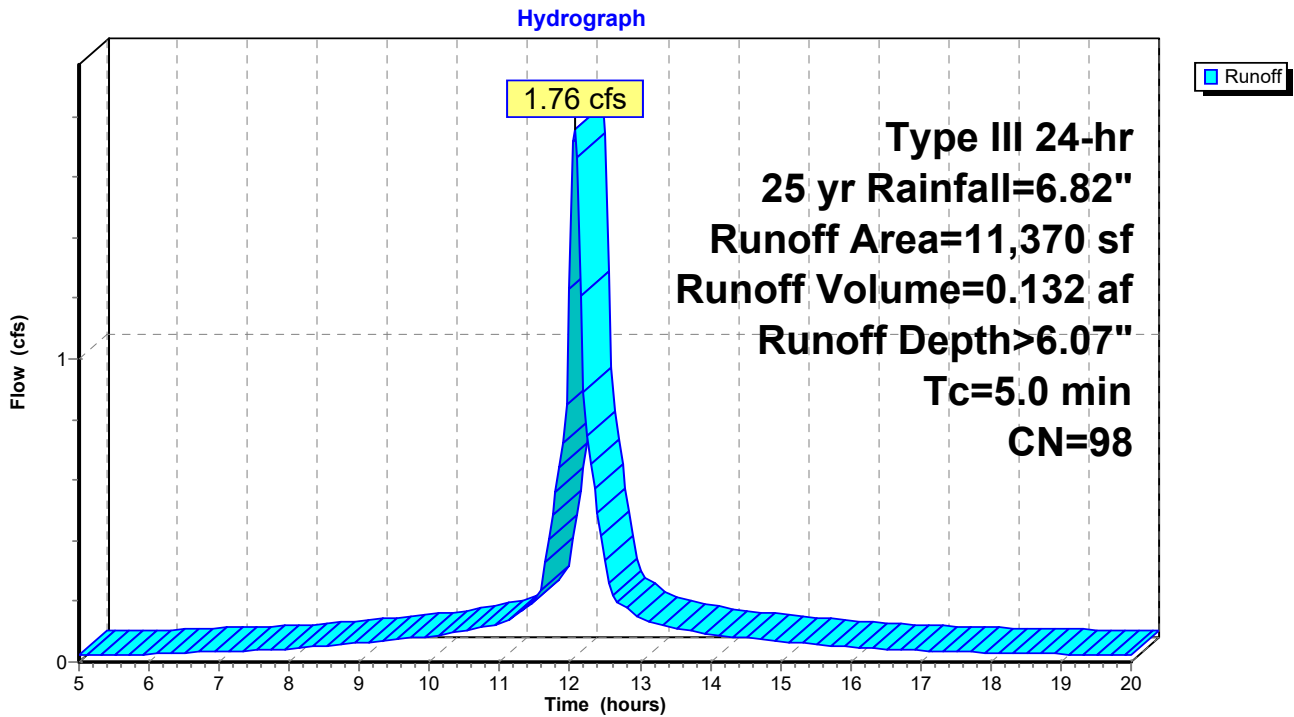
Routed to Pond 4P : PROPOSED DETENTION SYSTEM

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Type III 24-hr 25 yr Rainfall=6.82"

Area (sf)	CN	Description
11,370	98	Unconnected pavement, HSG B
11,370		100.00% Impervious Area
11,370		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

**Subcatchment 2: Q PROPOSED**



**Summary for Pond 4P: PROPOSED DETENTION SYSTEM**

Inflow Area = 0.261 ac, 100.00% Impervious, Inflow Depth > 6.07" for 25 yr event  
 Inflow = 1.76 cfs @ 12.07 hrs, Volume= 0.132 af  
 Outflow = 0.74 cfs @ 12.26 hrs, Volume= 0.107 af, Atten= 58%, Lag= 11.3 min  
 Primary = 0.74 cfs @ 12.26 hrs, Volume= 0.107 af  
 Routed to nonexistent node 5R

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Peak Elev= 449.49' @ 12.26 hrs Surf.Area= 1,680 sf Storage= 2,374 cf

Plug-Flow detention time= 126.0 min calculated for 0.106 af (80% of inflow)  
 Center-of-Mass det. time= 73.0 min ( 805.9 - 732.9 )

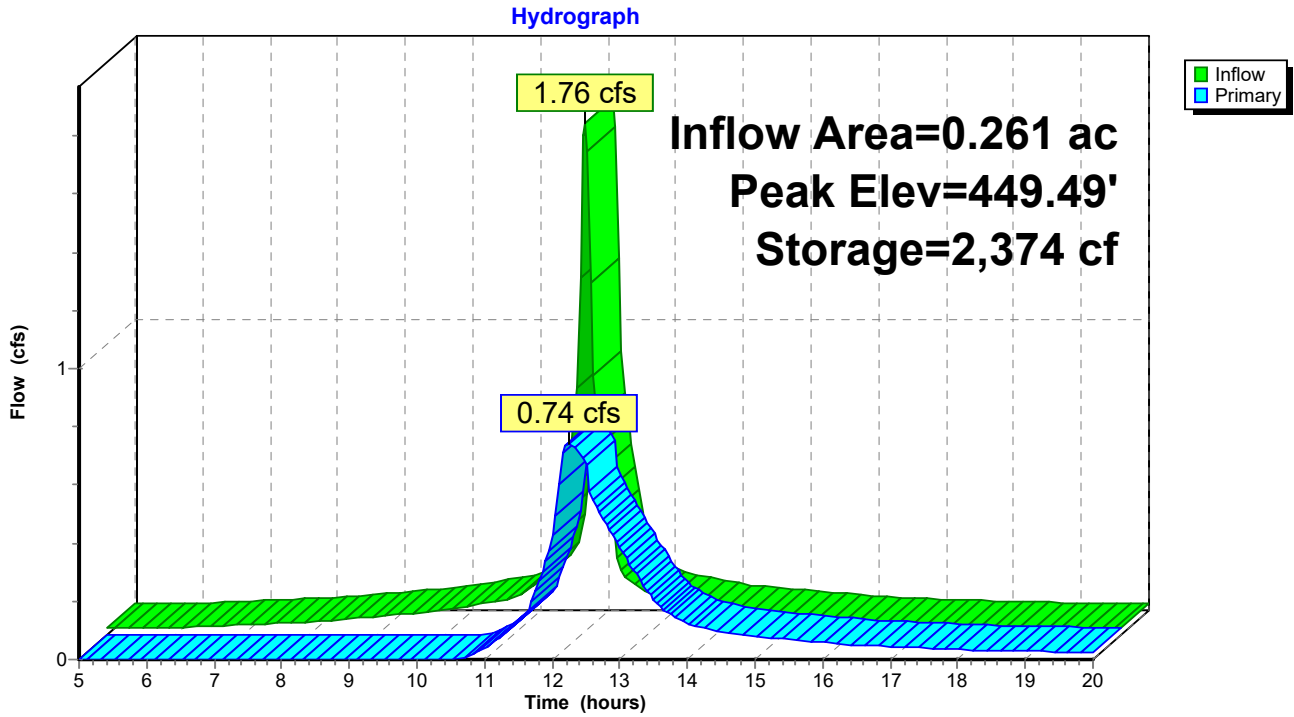
Volume	Invert	Avail.Storage	Storage Description
#1A	447.20'	952 cf	<b>28.00'W x 60.00'L x 3.00'H Field A</b> 5,040 cf Overall - 2,661 cf Embedded = 2,379 cf x 40.0% Voids
#2A	447.20'	1,903 cf	<b>Concrete Galley 4x8x2 x 42 Inside #1</b> Inside= 42.0"W x 21.0"H => 6.04 sf x 7.50'L = 45.3 cf Outside= 48.0"W x 24.0"H => 7.92 sf x 8.00'L = 63.4 cf 42 Chambers in 6 Rows
		2,854 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	448.00'	<b>5.0" Vert. 5"</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.74 cfs @ 12.26 hrs HW=449.48' (Free Discharge)  
 ↑1=5" (Orifice Controls 0.74 cfs @ 5.44 fps)

### Pond 4P: PROPOSED DETENTION SYSTEM



**2893-ALT-24**

Type III 24-hr 100 yr Rainfall=8.73"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1: EXISTING Q NEW** Runoff Area=11,370 sf 7.04% Impervious Runoff Depth>4.41"  
Flow Length=100' Slope=0.3000 '/' Tc=7.2 min CN=67 Runoff=1.37 cfs 0.096 af

**Subcatchment 2: Q PROPOSED** Runoff Area=11,370 sf 100.00% Impervious Runoff Depth>7.81"  
Tc=5.0 min CN=98 Runoff=2.25 cfs 0.170 af

**Pond 4P: PROPOSED DETENTION SYSTEM** Peak Elev=450.09' Storage=2,782 cf Inflow=2.25 cfs 0.170 af  
Outflow=0.90 cfs 0.144 af

**Total Runoff Area = 0.522 ac Runoff Volume = 0.266 af Average Runoff Depth = 6.11"**  
**46.48% Pervious = 0.243 ac 53.52% Impervious = 0.279 ac**

**Summary for Subcatchment 1: EXISTING Q NEW BUILDING**

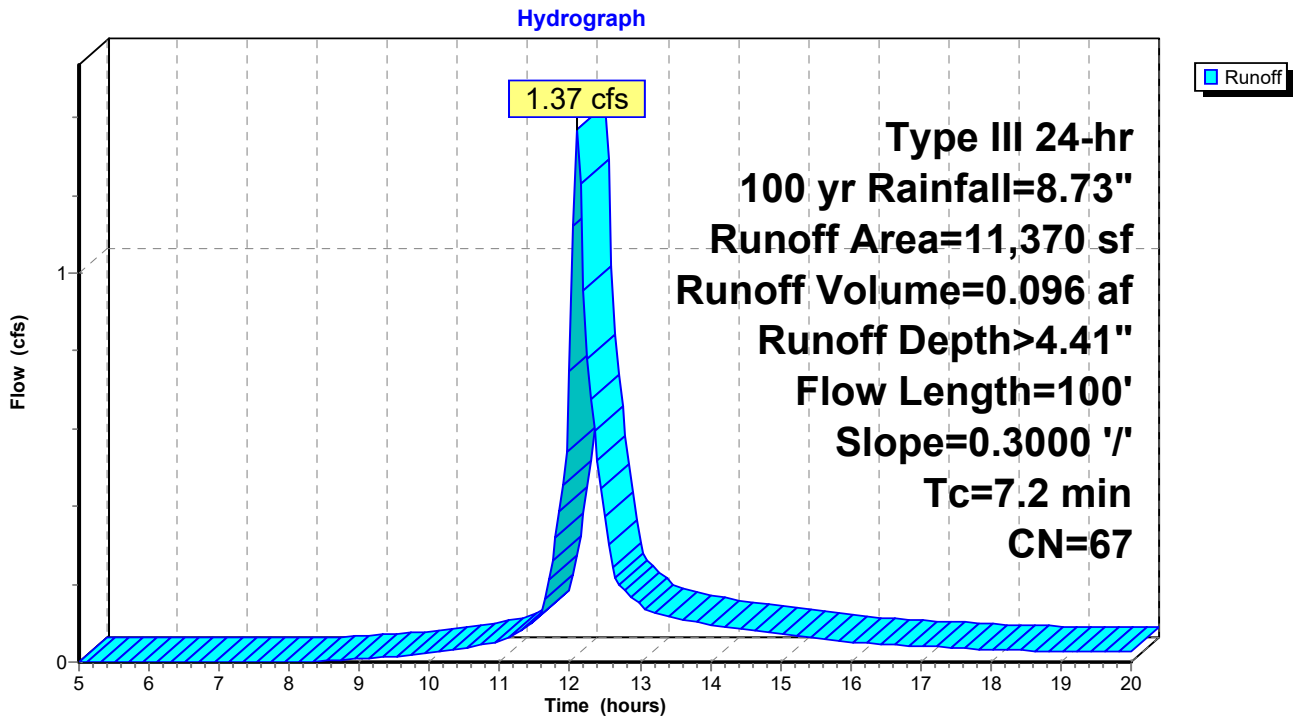
Runoff = 1.37 cfs @ 12.11 hrs, Volume= 0.096 af, Depth> 4.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Type III 24-hr 100 yr Rainfall=8.73"

Area (sf)	CN	Description
800	98	Paved parking, HSG B
10,570	65	Woods/grass comb., Fair, HSG B
11,370	67	Weighted Average
10,570		92.96% Pervious Area
800		7.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.3000	0.23		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.30"

**Subcatchment 1: EXISTING Q NEW BUILDING**



**Summary for Subcatchment 2: Q PROPOSED**

Runoff = 2.25 cfs @ 12.07 hrs, Volume= 0.170 af, Depth> 7.81"

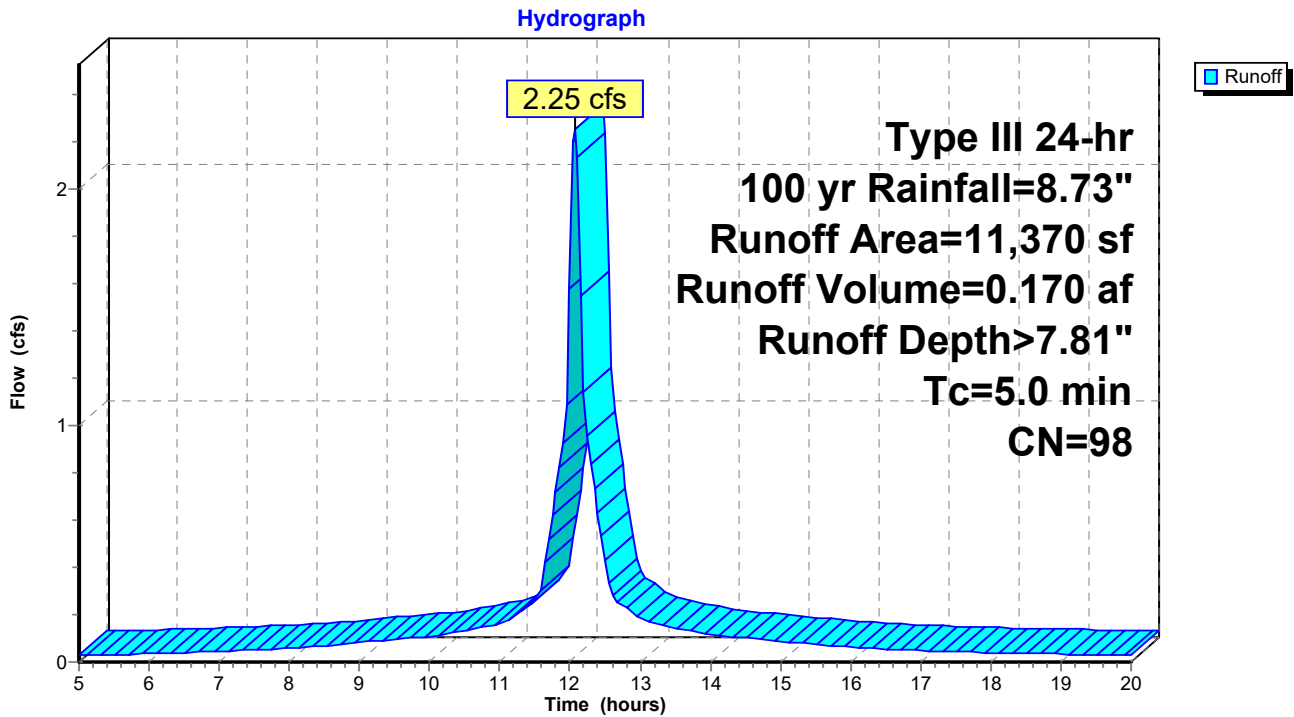
Routed to Pond 4P : PROPOSED DETENTION SYSTEM

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Type III 24-hr 100 yr Rainfall=8.73"

Area (sf)	CN	Description
11,370	98	Unconnected pavement, HSG B
11,370		100.00% Impervious Area
11,370		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

**Subcatchment 2: Q PROPOSED**



**Summary for Pond 4P: PROPOSED DETENTION SYSTEM**

Inflow Area = 0.261 ac, 100.00% Impervious, Inflow Depth > 7.81" for 100 yr event  
 Inflow = 2.25 cfs @ 12.07 hrs, Volume= 0.170 af  
 Outflow = 0.90 cfs @ 12.27 hrs, Volume= 0.144 af, Atten= 60%, Lag= 12.2 min  
 Primary = 0.90 cfs @ 12.27 hrs, Volume= 0.144 af  
 Routed to nonexistent node 5R

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
 Peak Elev= 450.09' @ 12.27 hrs Surf.Area= 1,680 sf Storage= 2,782 cf

Plug-Flow detention time= 111.9 min calculated for 0.143 af (84% of inflow)  
 Center-of-Mass det. time= 66.2 min ( 798.3 - 732.1 )

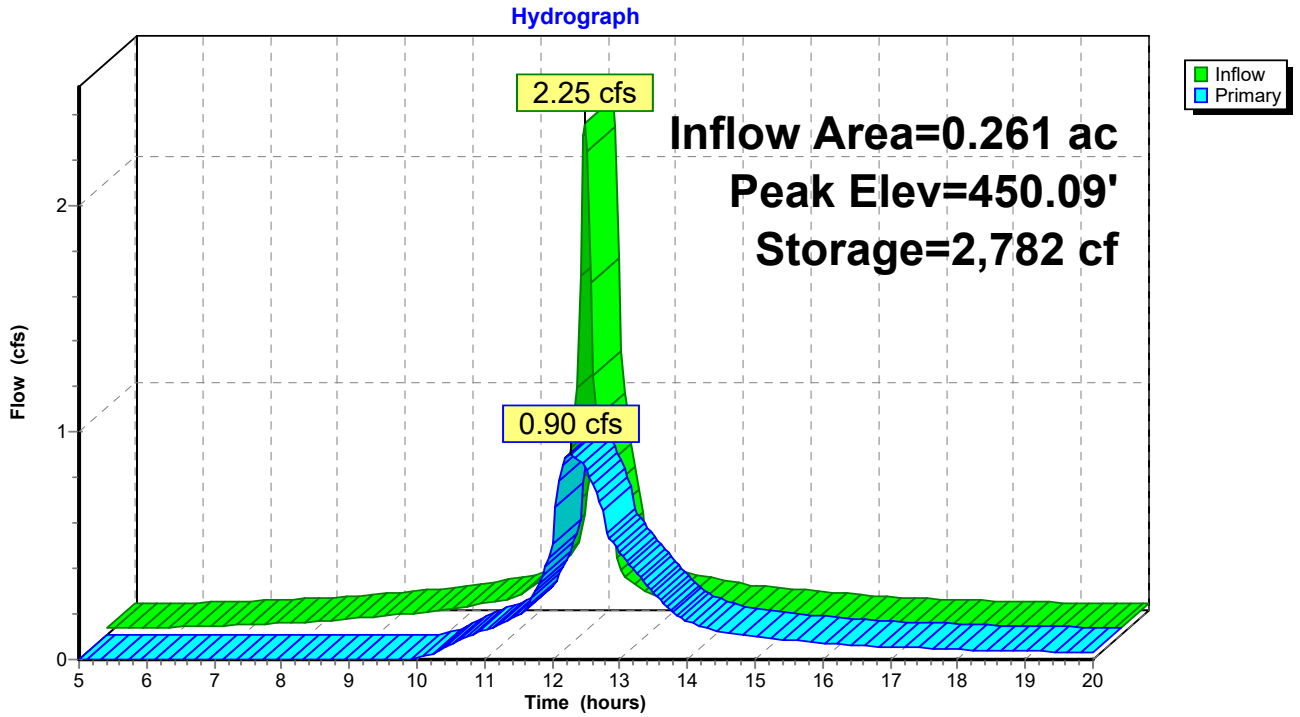
Volume	Invert	Avail.Storage	Storage Description
#1A	447.20'	952 cf	<b>28.00'W x 60.00'L x 3.00'H Field A</b> 5,040 cf Overall - 2,661 cf Embedded = 2,379 cf x 40.0% Voids
#2A	447.20'	1,903 cf	<b>Concrete Galley 4x8x2 x 42 Inside #1</b> Inside= 42.0"W x 21.0"H => 6.04 sf x 7.50'L = 45.3 cf Outside= 48.0"W x 24.0"H => 7.92 sf x 8.00'L = 63.4 cf 42 Chambers in 6 Rows
		2,854 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	448.00'	<b>5.0" Vert. 5"</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.90 cfs @ 12.27 hrs HW=450.09' (Free Discharge)  
 ↖1=5" (Orifice Controls 0.90 cfs @ 6.60 fps)

### Pond 4P: PROPOSED DETENTION SYSTEM



TOWN OF MONROE

Issued: 10-9-07

**BOND ESTIMATE FORM (Private Site Development)**

PLANNING & ZONING COMMISSION  
MEETING DATE \_\_\_\_\_

APPLICANT: BML TOOL  
ENGINEER: J. EDWARDS & ASSOCIATES LLC  
TEL.: 203.268.4205

\*APPLICATION NO: \_\_\_\_\_  
\*FILE NO: \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJECT NAME: BML TOOL

PROJECT LOCATION: 67 ENTERPRISE DRIVE

*BOND RECOMMENDATION
----------------------

NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	COST	Comments by Town Engr.	
						Unit Price*	Cost*
1.	Sedimentation and Erosion Control Measures	L.S.	IWC BOND				
2.	Silt Fence or Hay Bales	L.F.	IWC BOND				
3.	Topsoil, Seed, Fertilizing, and Mulching (entire disturbed area)	S.F.	8,000SF	0.2	\$1600		
4.	Landscaping (extent to provide for restoration and aesthetic considerations)	L.S.	1		\$5000		
5.	Grading (for site restoration that will provide safe and stable conditions)	L.S.	1		\$5000		
6.	Other						
	(+) 10% for Contingencies						
	* To be filled in by the Town				Total Cost =		*

Submitted by: \_\_\_\_\_  
Approved by: \_\_\_\_\_

Total costs as determined by the Town Engineer represent adjusted values assuming a Municipal bid arrangement with inflation, noting that the terms of the bond may be in effect for up to 10 or more years (statutory time allowance for performance of requirements).



May 11, 2022

This document has been prepared in response to the comments below received from the Monroe Engineering Department on 02/24/2022. Responses from JEA are in blue

A. Traffic and Safety:

- ~~1. The stop sign at the site exit should be indicated on the plans, and existing line striping should be re-painted/maintained when possible.~~
2. Handicap parking and respective access to the proposed building should be shown (include dimensions and elevations. **Contrary to the 2-28-22 response, the Building Department has confirmed that handicap parking is required, and therefore should be indicated.**

A Handicap space has been added in front of the new building.

3. The location of access points (doors) to the proposed buildings should be indicated. **Contrary to the 2-28- 22 response, the Building Department has confirmed that a separate hinged door is required, and therefore should be indicated (see note below).**

A hinged door location has been added to front of the building

B. Drainage and Utilities:

1. Test pit TH-1 should be extended to a minimum depth of 18" below the stone under the detention system (8.5' depth in lieu of the provided 5.8' depth; to at least elevation 443.0). **Contrary to the 2-28-22 response, the additional test pit information should be provided prior to closing the hearing. That way, if the plan/s need to be revised, the Commission will have that information prior to deliberating. If this for some reason moves forward regardless, the test pit information must be provided prior to an allowance of construction to begin.**

The drainage system has been redesigned to utilize 24" high concrete galleries. A test hole will still be completed prior to installation

- ~~2. The roof drain for the future addition to the existing building should connect to the detention system in lieu of the downstream/outlet catch basin.~~
- ~~3. The plan indicates a hooded 12" inlet pipe in the catch basin, but the detail shows the hood on the catch basin/manhole outlet. Accordingly, the plan notations should be revised to match the detail.~~
4. ~~In reviewing the plan in comparison to the stormwater management plan (calculations), it appears that the pipe size/data on the plans is the opposite of the intended layout. Accordingly, the plans should be revised to reflect a 5" outlet leaving the detention system, and a 12" outlet leaving the catch basin/manhole.~~ Also a detail of the restriction of the 6" pipe to 5" size should be provided. **The plans indicate "6" control outlet restricted to 5" Inv 447.5, but the Stormwater Management Plan indicates a 5" orifice with invert elevation 446.5**

Revised

- ~~5. The finish floor elevation of the proposed building, and addition should be indicated.~~

- ~~6. Some means of overflow from the detention system should be provided in the event that the one small outlet becomes plugged, or a storm event greater than 100 years happens to come along.~~
- ~~7. How will the runoff at the southeast corner of the proposed building be handled (show spot elevation at the southeast corner of the building, and grades off the easterly side of the building)? Will runoff flow over the wall?~~
8. The location of the anticipated retaining wall footing drain ~~and~~ outlet should be indicated. **...and the dimensions of the retaining wall should be included in the detail, noting that there does not appear to be enough room between the wall and the building.**

The plan has been reviewed by a structural engineer and there is enough room. **We do not include dimension of the wall because the final design may change. A sketch from the structural engineer is attached to this letter.**

- ~~9. The drainage system outlet protection (rip rap spreader pad) appears to be too small. Accordingly, sizing data should be included in the report.~~

C. Sedimentation and Erosion Control (MS4 issues): 1.

~~See above.~~

~~2. Anti-tracking measures should be indicated.~~

D. Other:

1. A site stabilization and restoration bond estimate should be provided.

TOWN OF MONROE

Issued: 10-9-07

**BOND ESTIMATE FORM (Private Site Development)**

PLANNING & ZONING COMMISSION  
MEETING DATE \_\_\_\_\_

APPLICANT: BML TOOL  
ENGINEER: J. EDWARDS & ASSOCIATES LLC  
TEL.: 203.268.4205

\*APPLICATION NO: \_\_\_\_\_  
\*FILE NO: \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJECT NAME: BML TOOL

PROJECT LOCATION: 67 ENTERPRISE DRIVE

\*BOND RECOMMENDATION

NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	COST	Comments by Town Engr.	
						Unit Price*	Cost*
1.	Sedimentation and Erosion Control Measures	L.S.	IWC BOND				
2.	Silt Fence or Hay Bales	L.F.	IWC BOND				
3.	Topsoil, Seed, Fertilizing, and Mulching (entire disturbed area)	S.F.	8,000SF	0.2	\$1600		
4.	Landscaping (extent to provide for restoration and aesthetic considerations)	L.S.	1		\$5000		
5.	Grading (for site restoration that will provide safe and stable conditions)	L.S.	1		\$5000		
6.	Other						
(+) 10% for Contingencies							
* To be filled in by the Town				Total Cost =		*	

Submitted by: \_\_\_\_\_  
Approved by: \_\_\_\_\_

Total costs as determined by the Town Engineer represent adjusted values assuming a Municipal bid arrangement with inflation, noting that the terms of the bond may be in effect for up to 10 or more years (statutory time allowance for performance of requirements).



**DiBlasi Associates, PC**  
Structural Engineers

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e-mail: mail@DiBlasi-Engrs.com

JOB BMC TANK

SHEET NO. 1 OF 2

CALCULATED BY TDB DATE 03/22/2022

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

SCALE \_\_\_\_\_

