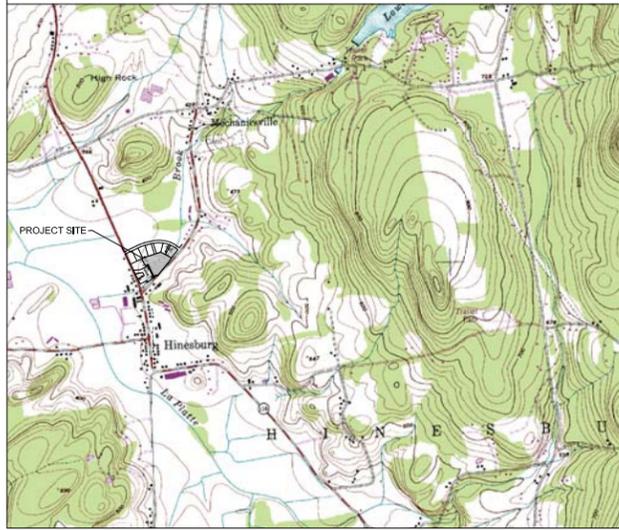
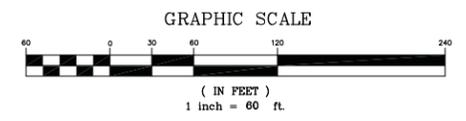
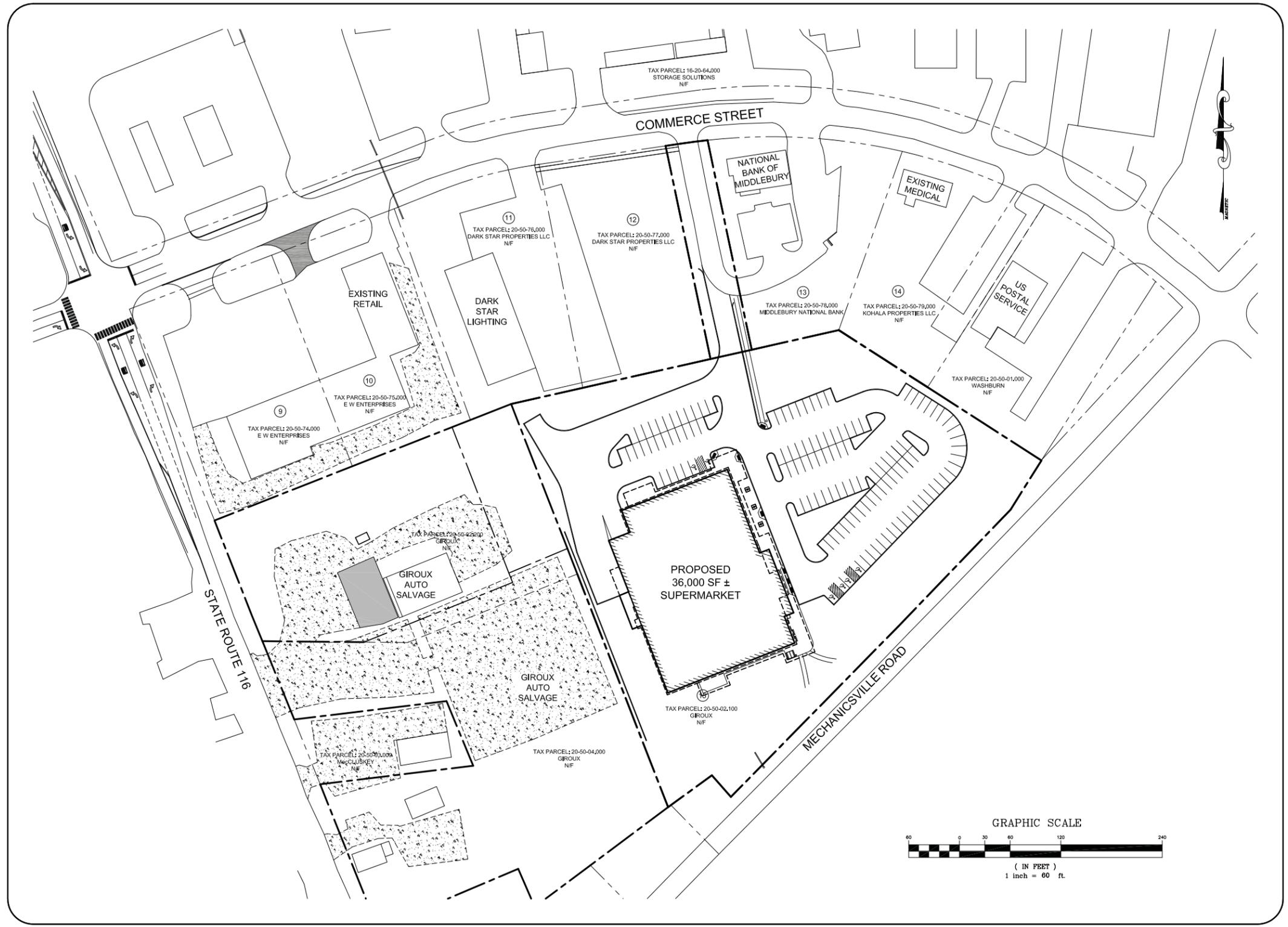


LOCATION PLAN



SHEET INDEX

- C1 EXISTING CONDITIONS
- C2 OVERALL PLAN
- C3 SITE PLAN
- C4 COMMERCE STREET UTILITY PLAN
- C5 LOT 15 UTILITY PLAN
- C6 ROUTE 116/COMMERCE STREET INTERSECTION IMPROVEMENTS
- C7 SEWER & WATER DETAILS
- C8 ROAD & EROSION DETAILS
- L1 LANDSCAPE PLAN
- L2 LIGHTING PLAN
- L3 LANDSCAPE DETAILS
- S1 STORMWATER MANAGEMENT PLAN
- S2 STORMWATER MANAGEMENT PLAN
- S3 STORMWATER MANAGEMENT PLAN
- E1 EPSC PRE-CONSTRUCTION PLAN
- E2 EPSC CONSTRUCTION PLAN - PHASE I (LOADING)
- E3 EPSC CONSTRUCTION PLAN - PHASE II (INFRASTRUCTURE)
- E4 EPSC CONSTRUCTION PLAN - PHASE III (BUILDING)
- E5 EPSC STABILIZATION PLAN
- E6 EPSC DETAILS & SPECIFICATIONS
- A1 BUILDING PLAN VIEW
- A2 BUILDING ELEVATIONS



HANNAFORD SUPERMARKET & PHARMACY

COMMERCE STREET, HINESBURG, VERMONT

March 11, 2013

OWNER
 BERNARD A. GIROUX TRUST
 JUNE T. GIROUX TRUST
 VICTOR T. GIROUX TRUST
 RAMONA. GIROUX TRUST
 9318 ROUTE 116
 HINESBURG, VT

APPLICANT
 MARTIN'S FOOD OF SOUTH
 BURLINGTON, INC.
 P.O. BOX 1000
 PORTLAND, ME 04104

DEVELOPMENT CONSULTANT
 WHITE + BURKE REAL ESTATE
 INVESTMENT ADVISORS, INC.
 168 BATTERY STREET
 BURLINGTON, VT. 05401

CIVIL & SITE ENGINEER
 O'LEARY-BURKE CIVIL ASSOCIATES, PLC.
 1 CORPORATE DRIVE, SUITE 1
 ESSEX JCT., VT 05452

ENVIRONMENTAL CONSULTANT
 VHB
 7056 ROUTE 7
 NORTH FERRISBURGH, VT. 05473

LANDSCAPE ARCHITECT
 SE GROUP
 131 CHURCH STREET
 BURLINGTON, VT. 05401

TRAFFIC CONSULTANT
 LAMOUREUX & DICKINSON
 14 MORSE DRIVE
 ESSEX JCT., VT 05452

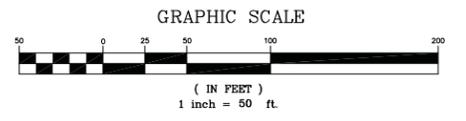
ARCHITECT
 BAST & ROOD ARCHITECTS
 P.O. BOX 220
 HINESBURG, VT 05461



LEGEND

- PROPERTY BOUNDARY
- OTHER PROPERTY LINE
- - - SIDELINE OF EASEMENT
- - - 344 CONTOUR LINE (USGS & DATUM)
- 345 PROPOSED FINISH GRADE CONTOUR
- ~ ~ ~ EDGE OF WOODED AREA
- EDGE OF WETLAND (CLASS III)
- EXISTING IRON PIPE
- EXISTING CONCRETE MONUMENT
- IRON PIPE (TO BE SET)
- PROPERTY BOUNDARY
- - - CHAIN LINK FENCE
- ETC EXISTING ELECTRIC/TV/TELEPHONE LINE
- S EXISTING SEWERLINE
- EXISTING STORMLINE
- W EXISTING WATERLINE
- EXISTING/PROPOSED HYDRANT
- Ac/D ■ ■ ■ ■ ■ SOIL TYPE & BOUNDARY

(NOTE: PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE)



3-11-13	REVISED VT 116 LANE MARKINGS TO REFLECT RECENT UPGRADES	BJB
2-27-13	REVISED STORM DESIGN PER CONFLICT WITH LANDSCAPING PLAN	BJB
4-26-12	REVISED BUILDING FOOTPRINT, PARKING LAYOUT, BOUNDARY LINE ADJUSTMENT	BJB
7-20-11	PLAN CHANGES PER HINESBURG COMMENTS	PJO
DATE	REVISION	BY
SURVEY	<input type="checkbox"/> RECORD DRAWING <input type="checkbox"/> PRELIMINARY	DATE
DESIGN	<input type="checkbox"/> FINAL <input type="checkbox"/> SKETCH/CONCEPT	11-09-10
DRAWN		9066
CHECKED		FILE
SCALE		CURRENT
1"=50'		PLAN SHEET #



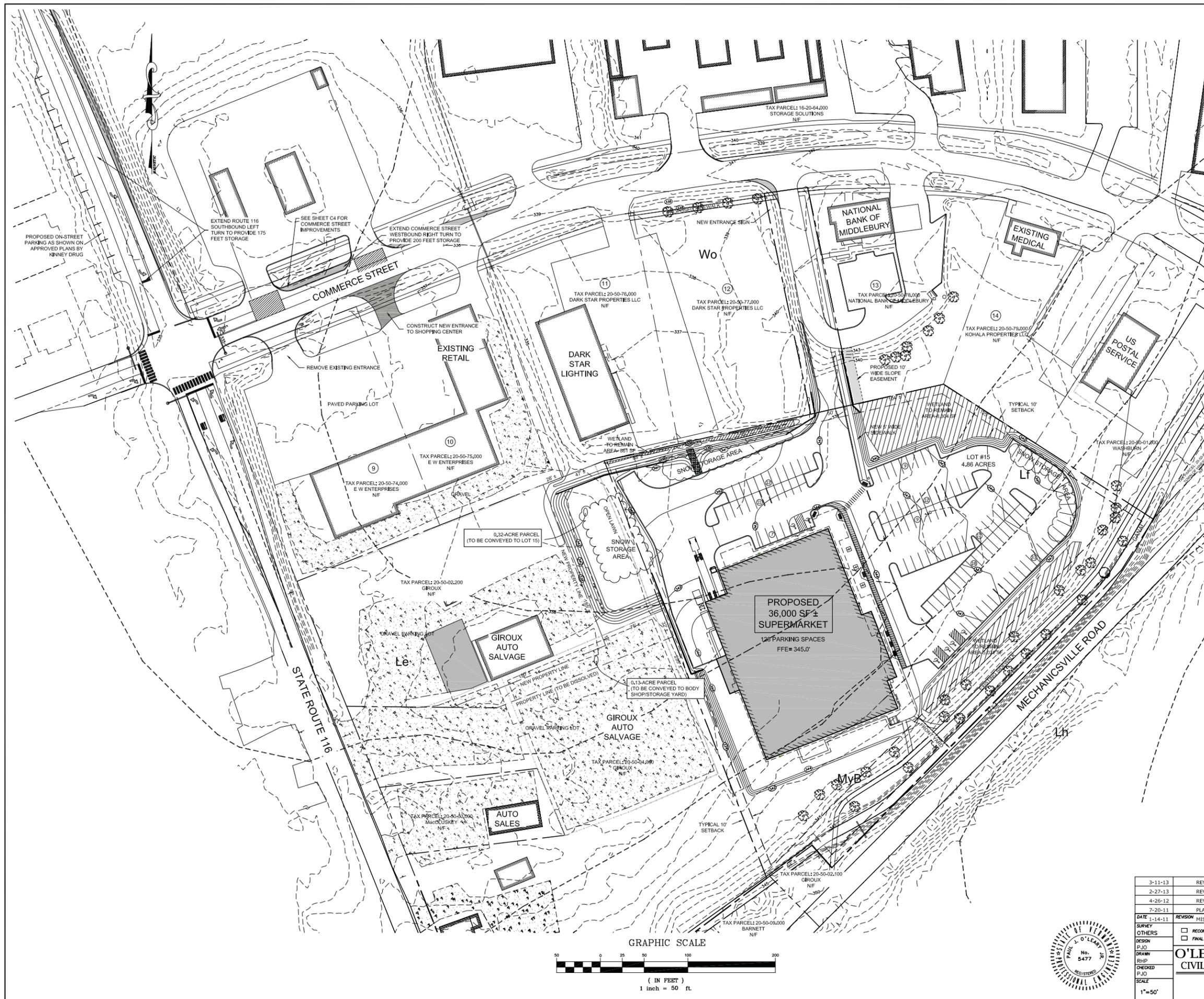
**O'LEARY-BURKE
CIVIL ASSOCIATES, PLC**

1 CORPORATE DRIVE, SUITE #1
ESSEX, VT
PHONE: 878-9888
FAX: 878-9889
E-MAIL: oob@olearyburke.com

**Hannaford Supermarket
& Pharmacy**
Commerce Street Hinesburg, VT

Existing Conditions

C1



LEGEND

- — — — — PROPERTY BOUNDARY
- - - - - OTHER PROPERTY LINE
- - - - - SIDELINE OF EASEMENT
- - - - - CONTOUR LINE (USGS & DATUM)
- — — — — — PROPOSED FINISH GRADE CONTOUR
- ~~~~~ EDGE OF WOODED AREA
- ▲ — — — — — EDGE OF WETLAND (CLASS III)
- EXISTING IRON PIPE
- EXISTING CONCRETE MONUMENT
- IRON PIPE (TO BE SET)
- PROPERTY BOUNDARY
- - - - - CHAIN LINK FENCE
- - - - - EXISTING ELECTRIC/TV/TELEPHONE LINE
- - - - - ETC
- S — — — — — EXISTING SEWERLINE
- □ — — — — — EXISTING STORMLINE
- W — — — — — EXISTING WATERLINE
- ⊕ EXISTING/PROPOSED HYDRANT
- AdD — — — — — SOIL TYPE & BOUNDARY

(NOTE: PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE)

SOIL TYPES

- Wo WINDSOR VERY FINE SANDY LOAM
- Le LIMERICK SILT LOAM
- Lf LIMERICK SILT LOAM, VERY WET
- MyB MUNSON AND RAYNHAM SILT LOAMS, 2 TO 6 PERCENT SLOPES
- Lh LIVINGSTON CLAY
- F&E FARMINGTON EXTREMELY ROCKY LOAM, 20 T 60 PERCENT SLOPES

GENERAL NOTES:

- APPLICANT: MARTIN'S FOOD OF SOUTH BURLINGTON, INC.
P.O. BOX 1000
PORTLAND, ME 04104
- PROJECT NAME: HANNAFORD SUPERMARKET & PHARMACY
LOT 15 COMMERCE STREET - HINESBURG, VERMONT
- PROJECT SITE:

LOT 15 -	4.56 ACRES
COMMERCE STREET EXTENSION -	0.30 ACRES
GIROUX BOUNDARY LINE ADJUSTMENT -	0.32 ACRES
TOTAL =	5.18 ACRES
- COMMERCIAL ZONING DIMENSIONAL REQUIREMENTS:

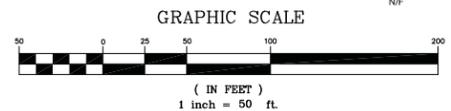
	REQUIRED	PROVIDED
MINIMUM LOT FRONTAGE	60'	542'
MINIMUM LOT DEPTH	100'	285'
MAXIMUM LOT COVERAGE	60%	57.9%

MINIMUM SETBACKS SHOWN ON PLAN
- PARKING SUMMARY:

REQUIRED MINIMUM PARKING FOR RETAIL - 1 SPACE PER 400 S.F.

SUPERMARKET (36,000 S.F. ±)
REQUIRED MINIMUM PARKING SPACES FOR 36,000 S.F. = 90 SPACES
PROPOSED PARKING SPACES = 128 SPACES

CART CORRALS NOT INCLUDED IN PROPOSED PARKING SPACES PROVIDED



DATE	REVISION	BY	RHP
3-11-13	REVISED VT116 LANE MARKINGS TO REFLECT UPGRADES		BJB
2-27-13	REVISED STORM DESIGN PER CONFLICT WITH LANDSCAPING PLAN		BJB
4-26-12	REVISED BUILDING FOOTPRINT, PARKING LAYOUT, BOUNDARY LINE ADJUSTMENT		BJB
7-20-11	PLAN CHANGES PER HINESBURG COMMENTS		PJO
1-14-11	MISCELLANEOUS PLAN CHANGES		RHP
SURVEY	<input type="checkbox"/> RECORD DRAWING <input type="checkbox"/> PRELIMINARY	DATE	11-09-10
OTHERS	<input type="checkbox"/> FINAL <input type="checkbox"/> SKETCH/CONCEPT	JOB#	9066
DESIGN		FILE	CURRENT
DRAWN		PLAN SHEET #	C2
CHECKED			
SCALE			
1"=50'			

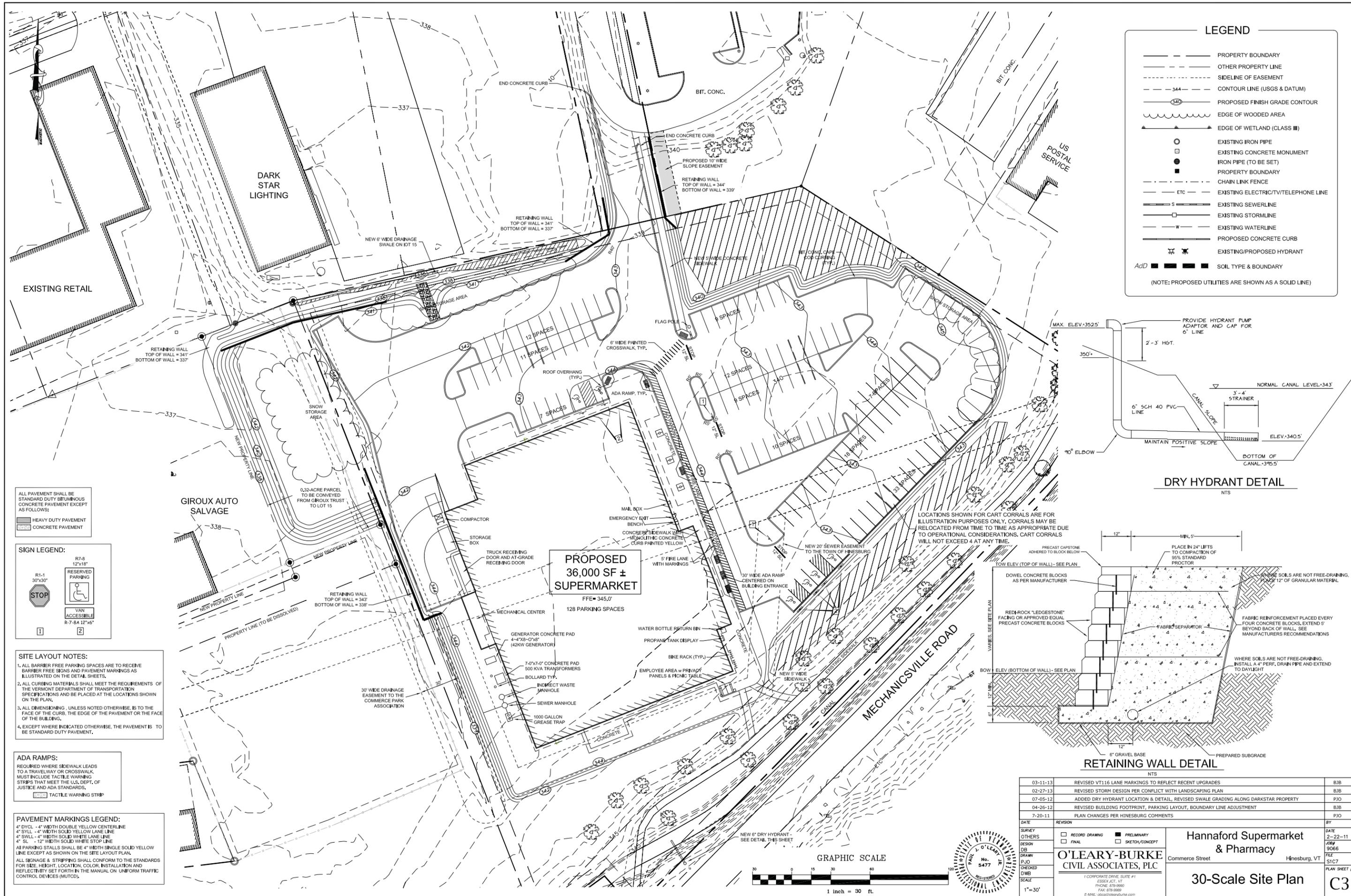


O'LEARY-BURKE
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Hannaford Supermarket & Pharmacy
Commerce Street Hinesburg, VT

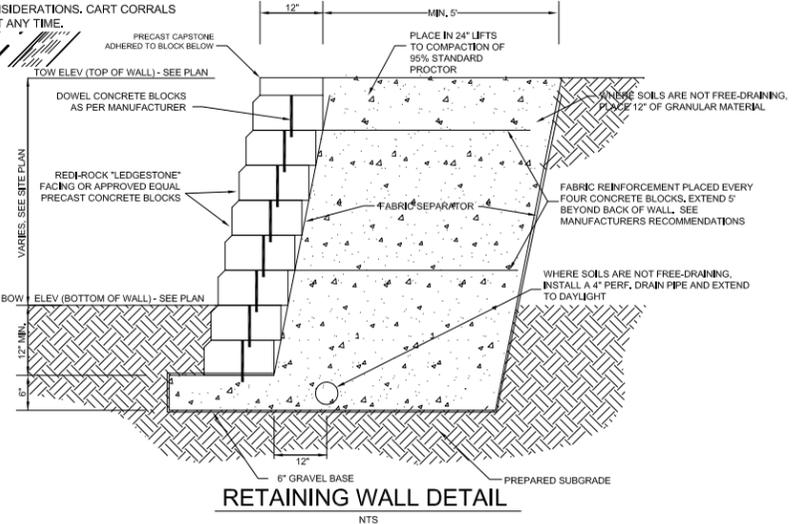
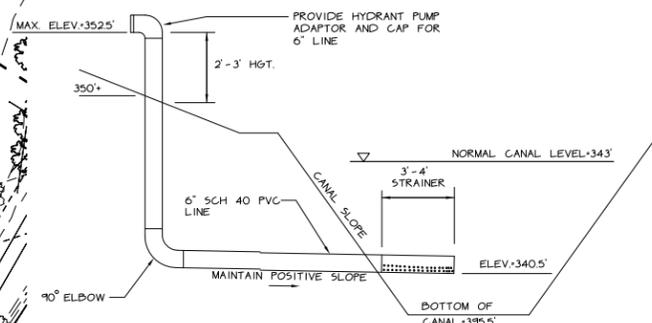
Overall Plan



LEGEND

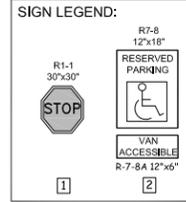
- PROPERTY BOUNDARY
- OTHER PROPERTY LINE
- - - SIDELINE OF EASEMENT
- 344 --- CONTOUR LINE (USGS & DATUM)
- 340 ○ PROPOSED FINISH GRADE CONTOUR
- ~ ~ ~ EDGE OF WOODED AREA
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- EXISTING IRON PIPE
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- IRON PIPE (TO BE SET)
- PROPERTY BOUNDARY
- - - CHAIN LINK FENCE
- - - ETC --- EXISTING ELECTRIC/TV/TELEPHONE LINE
- EXISTING SEWERLINE
- EXISTING STORMLINE
- EXISTING WATERLINE
- PROPOSED CONCRETE CURB
- EXISTING/PROPOSED HYDRANT
- AdD ■ ■ ■ ■ ■ SOIL TYPE & BOUNDARY

(NOTE: PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE)



ALL PAVEMENT SHALL BE STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT EXCEPT AS FOLLOWS:

- HEAVY DUTY PAVEMENT
- CONCRETE PAVEMENT



SITE LAYOUT NOTES:

- ALL BARRIER FREE PARKING SPACES ARE TO RECEIVE BARRIER FREE SIGNS AND PAVEMENT MARKINGS AS ILLUSTRATED ON THE DETAIL SHEETS.
- ALL CURBING MATERIALS SHALL MEET THE REQUIREMENTS OF THE VERMONT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND BE PLACED AT THE LOCATIONS SHOWN ON THE PLAN.
- ALL DIMENSIONING, UNLESS NOTED OTHERWISE, IS TO THE FACE OF THE CURB, THE EDGE OF THE PAVEMENT OR THE FACE OF THE BUILDING.
- EXCEPT WHERE INDICATED OTHERWISE, THE PAVEMENT IS TO BE STANDARD DUTY PAVEMENT.

ADA RAMP:

REQUIRED WHERE SIDEWALK LEADS TO A TRAVELWAY OR CROSSWALK. MUST INCLUDE TACTILE WARNING STRIPS THAT MEET THE U.S. DEPT. OF JUSTICE AND ADA STANDARDS.

PAVEMENT MARKINGS LEGEND:

- 4" DYCL - 4" WIDTH DOUBLE YELLOW CENTERLINE
- 4" SYLL - 4" WIDTH SOLID YELLOW LANE LINE
- 4" SWLL - 4" WIDTH SOLID WHITE LANE LINE
- 4" SL - 12" WIDTH SOLID WHITE STOP LINE
- ALL PARKING STALLS SHALL BE 4" WIDTH SINGLE SOLID YELLOW LINE EXCEPT AS SHOWN ON THE SITE LAYOUT PLAN.
- ALL SIGNAGE & STRIPPING SHALL CONFORM TO THE STANDARDS FOR SIZE, HEIGHT, LOCATION, COLOR, INSTALLATION AND REFLECTIVITY SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

PROPOSED 36,000 SF ± SUPERMARKET
 FFE = 345,0'
 128 PARKING SPACES

LOCATIONS SHOWN FOR CART CORRALS ARE FOR ILLUSTRATION PURPOSES ONLY. CORRALS MAY BE RELOCATED FROM TIME TO TIME AS APPROPRIATE DUE TO OPERATIONAL CONSIDERATIONS. CART CORRALS WILL NOT EXCEED 4 AT ANY TIME.

DATE: 03-11-13 REVISION: REVISED VT116 LANE MARKINGS TO REFLECT RECENT UPGRADES BY: BJB

DATE: 02-27-13 REVISION: REVISED STORM DESIGN PER CONFLICT WITH LANDSCAPING PLAN BY: BJB

DATE: 07-05-12 REVISION: ADDED DRY HYDRANT LOCATION & DETAIL, REVISED SWALE GRADING ALONG DARKSTAR PROPERTY BY: PJO

DATE: 04-26-12 REVISION: REVISED BUILDING FOOTPRINT, PARKING LAYOUT, BOUNDARY LINE ADJUSTMENT BY: BJB

DATE: 7-20-11 REVISION: PLAN CHANGES PER HINESBURG COMMENTS BY: PJO

DATE: 2-22-11 DATE: 2-22-11

JOB# 9066

FILE SIC7

PLAN SHEET # C3

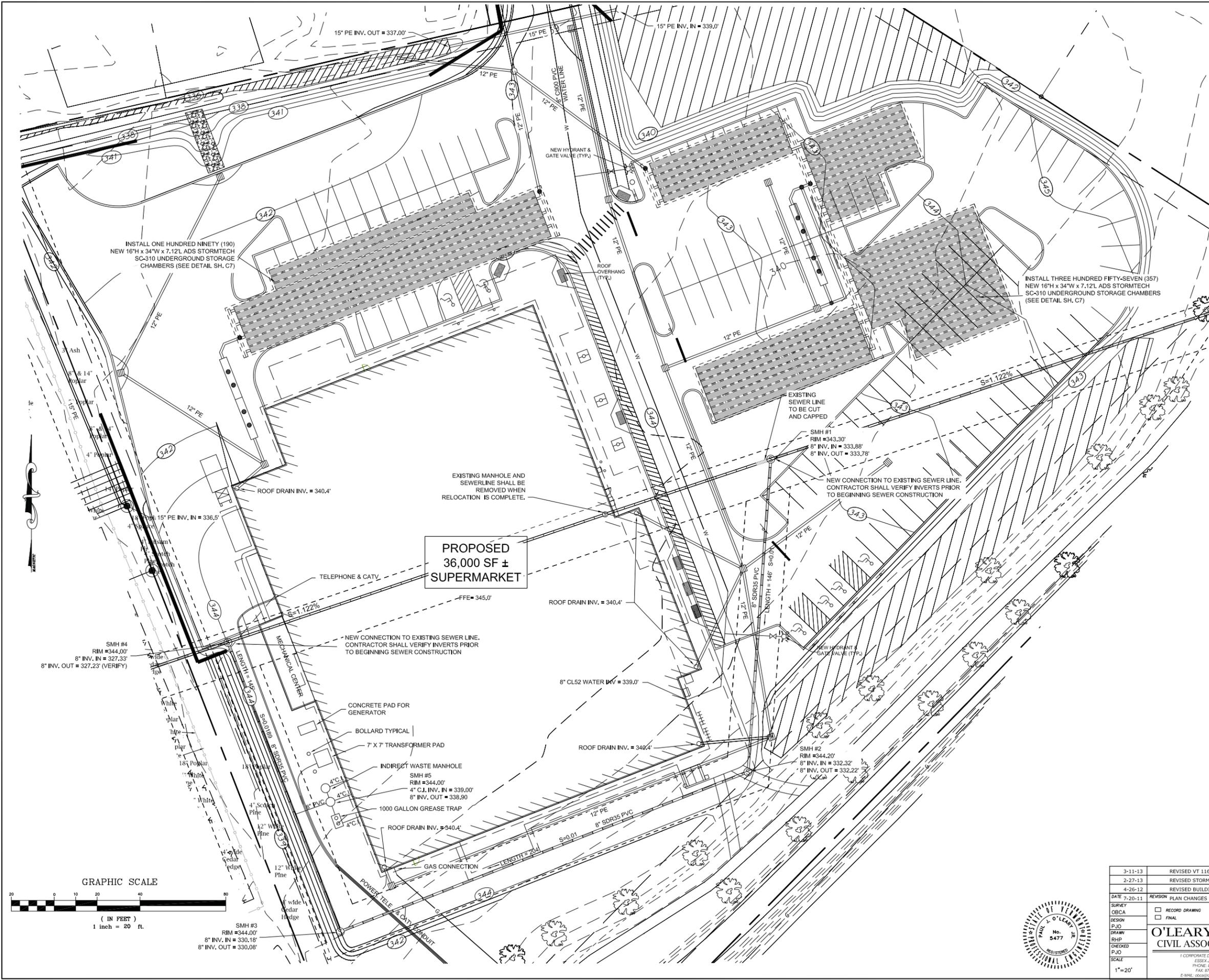
Hannaford Supermarket & Pharmacy
 Commerce Street Hinesburg, VT

30-Scale Site Plan

O'LEARY-BURKE CIVIL ASSOCIATES, PLC
 1 CORPORATE DRIVE, SUITE #1
 ESSEX, VT
 PHONE: 879-9889
 FAX: 879-9889
 E-MAIL: ocb@olearyburke.com

PAUL J. O'LEARY, REGISTERED PROFESSIONAL ENGINEER, No. 5477

GRAPHIC SCALE: 1 inch = 30 ft.

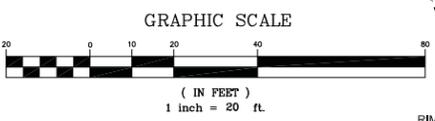


LEGEND

- PROPERTY BOUNDARY
- - - OTHER PROPERTY LINE
- - - SIDELINE OF EASEMENT
- - - 344 CONTOUR LINE (USGS & DATUM)
- 340 PROPOSED FINISH GRADE CONTOUR
- ~ EDGE OF WOODED AREA
- ▲ EDGE OF WETLAND (CLASS III)
- EXISTING IRON PIPE
- EXISTING CONCRETE MONUMENT
- IRON PIPE (TO BE SET)
- PROPERTY BOUNDARY
- - - CHAIN LINK FENCE
- - - EXISTING ELECTRIC/TV/TELEPHONE LINE
- - - ETC
- - - EXISTING SEWERLINE
- - - EXISTING STORMLINE
- - - EXISTING WATERLINE
- ⊕ EXISTING/PROPOSED HYDRANT
- SOIL TYPE & BOUNDARY

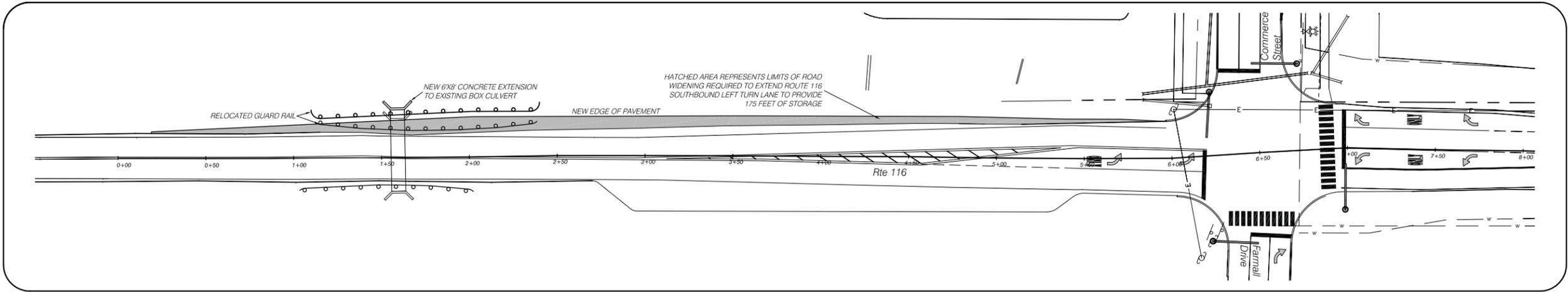
(NOTE: PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE)

**PROPOSED
36,000 SF ±
SUPERMARKET**



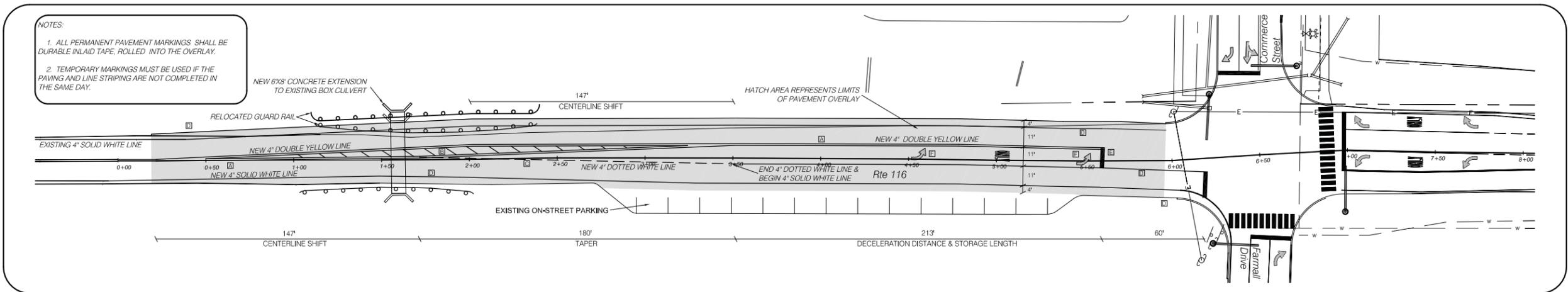
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4-26-12	REVISED BUILDING FOOTPRINT, PARKING LAYOUT, BOUNDARY LINE ADJUSTMENT	BJB
DATE 7-20-11	REVISION PLAN CHANGES PER HINESBURG COMMENTS	BY PJO
SURVEY	<input type="checkbox"/> RECORD DRAWING <input type="checkbox"/> PRELIMINARY	DATE 11-09-10
DESIGN	<input type="checkbox"/> FINAL <input type="checkbox"/> SKETCH/CONCEPT	JOB# 9066
DRAWN PJO	O'LEARY-BURKE CIVIL ASSOCIATES, PLC	FILE CURRENT
CHECKED PJO	1 CORPORATE DRIVE, SUITE #1 ESSEX, VT PHONE: 878-9880 FAX: 878-9889 E-MAIL: ocb@olearyburke.com	PLAN SHEET #
SCALE 1"=20'	Hannaford Supermarket & Pharmacy Commerce Street Hinesburg, VT	C5
	Lot 15 Utility Plan	





New Pavement Plan

1" = 30'



NOTES:
 1. ALL PERMANENT PAVEMENT MARKINGS SHALL BE DURABLE INLAID TAPE, ROLLED INTO THE OVERLAY.
 2. TEMPORARY MARKINGS MUST BE USED IF THE PAVING AND LINE STRIPING ARE NOT COMPLETED IN THE SAME DAY.

Lane Marking and Signage Plan

1" = 30'

Legend

- PROPERTY BOUNDARY
- OTHER PROPERTY LINE
- SIDELINE OF EASEMENT
- 344 --- CONTOUR LINE (USGS & DATUM)
- 340 --- PROPOSED FINISH GRADE CONTOUR
- EDGE OF WOODED AREA
- EDGE OF WETLAND (CLASS III)
- EXISTING IRON PIPE
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- PROPERTY BOUNDARY
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- S --- EXISTING SEWERLINE
- □ --- EXISTING STORMLINE
- W --- EXISTING WATERLINE
- ⊕ EXISTING/PROPOSED HYDRANT
- AdD SOIL TYPE & BOUNDARY

(NOTE: PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE)

Left Turn Lane Calculations

T = TAPER
 SL = STORAGE LENGTH
 AS = ADDITIONAL STORAGE LENGTH FOR DECELERATION
 L = CENTERLINE SHIFT

L = WS(SQUARED) / 60 FOR 40 MPH OR LESS
 L = WS FOR 45 MPH OR MORE

W = 5.5; WIDTH OF SHIFT FROM THE ORIGINAL CENTERLINE IN THE DIRECTION OF TRAVEL
 S = 40 MPH, SPEED LIMIT IN MPH

L = (5.5(40)SQUARED) / 60
 L = 147'

T = 100' FOR 30 MPH OR LESS
 T = 180' TO 200' FOR OVER 30 MPH
 T = 180'

SL AT SIGNALIZED INTERSECTIONS BASED ON TWICE THE NUMBER OF VEHICLES THAT WOULD STORE PER CYCLE

ASSUME 7 CARS @ 25' PER CAR

SL = 175'

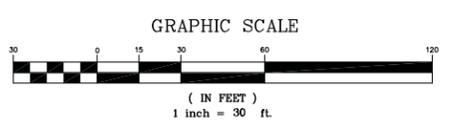
AS = AASHTO DECEL. VALUE - .5(SL-50)
 AASHTO DECEL VALUE = 275' PER TABLE 9-22, ASSHTO GREEN BOOK (2011).

AS = 275' - .5(175'-50)
 AS = 213'

TL = TOTAL LENGTH
 TL = L + T + AS
 TL = 150' + 180' + 213'
 TL = 540'

Pavement Marking Legend

- 4" DOUBLE YELLOW LINE
- 8" DIAGONAL YELLOW LINE
- 4" DOTTED WHITE LINE
- 4" SOLID WHITE LINE
- 24" WHITE STOPBAR
- LETTER OR SYMBOL



DATE	REVISION	BY
SURVEY	RECORD DRAWING	DATE
DESIGN	PRELIMINARY	03-18-13
PJO	FINAL	JOB#
DRAWN	SKETCH/CONCEPT	9066
ELB		FILE
CHECKED		CURRENT
PJO		PLAN SHEET #
SCALE		C6
1" = 30'		

Hannafords Supermarket & Pharmacy
 Commerce Street Hinesburg, VT

Route 116/Commerce Street Intersection Improvements

O'LEARY-BURKE CIVIL ASSOCIATES, PLC
 1 CORPORATE DRIVE, SUITE #1
 ESSEX, VT
 PHONE: 878-9980
 FAX: 878-9989
 E-MAIL: oob@olearyburke.com

GENERAL WATER SPECIFICATIONS

- CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION. UTILITIES INFORMATION SHOWN ON SHEET 1 WERE OBTAINED FROM THE BEST AVAILABLE SOURCE AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON.
- THE HORIZONTAL AND VERTICAL SEPARATION FOR SEWER AND WATER LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE "TEN STATE STANDARDS - RECOMMENDED STANDARDS FOR WATER WORKS".
- THE WATER MAINS SHALL BE CONSTRUCTED, TESTED, AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARDS C-600 AND C-651 WITH THE EXCEPTION OF THE TABLET METHOD OF DISINFECTION.

THE CONTRACTOR SHALL FURNISH ALL GAUGES, TESTING PLUGS, CAPS, AND ALL OTHER NECESSARY EQUIPMENT AND LABOR TO PERFORM LEAKAGE, PRESSURE AND DISINFECTION TESTS IN SECTIONS OF AN APPROVED LENGTH. EACH VALVED SECTION OR A MAXIMUM OF ONE THOUSAND FEET (1,000') OF THE PIPE SHALL BE TESTED. ALL WATER REQUIRED FOR TESTING SHALL BE POTABLE. ALL TESTING SHALL BE CONDUCTED IN THE PRESENCE OF THE ENGINEER.

FOR THE PRESSURE TEST, THE CONTRACTOR SHALL DEVELOP AND MAINTAIN 200 POUNDS PER SQUARE INCH FOR TWO HOURS. FAILURE TO HOLD THE DESIGNATED PRESSURE FOR THE TWO-HOUR PERIOD CONSTITUTES A FAILURE OF THE SECTION TESTED. THE LEAKAGE TEST SHALL BE PERFORMED CONCURRENTLY WITH THE PRESSURE TEST. DURING THE TEST, THE CONTRACTOR SHALL MEASURE THE QUANTITY OF WATER REQUIRED TO MAINTAIN THE TEST PRESSURE. LEAKAGE SHALL NOT EXCEED THE QUANTITY GIVEN BY:

$$L = SD (\text{SQUARE ROOT OF } P) / 133,200$$

L = LEAKAGE IN GALLONS/HOUR
S = LENGTH OF PIPELINE TESTED
D = DIAMETER OF PIPE IN INCHES
P = AVERAGE TEST PRESSURE IN PSI

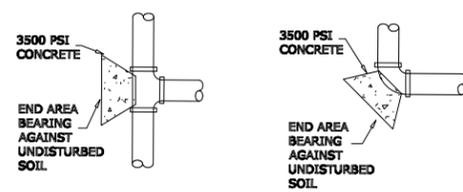
ALL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH AWWA C600 LATEST REVISION. SHOULD ANY SECTION OF THE PIPE FAIL EITHER THE PRESSURE OR LEAKAGE TESTS, THE CONTRACTOR SHALL DO EVERYTHING NECESSARY TO LOCATE AND REPAIR OR REPLACE THE DEFECTIVE PIPE, FITTINGS, OR JOINTS AT NO EXPENSE TO THE OWNER. IF, FOR ANY REASON, THE ENGINEER SHOULD ALTER THE FOREGOING PROCEDURES, THE CONTRACTOR SHALL REMAIN RESPONSIBLE FOR THE TIGHTNESS OF THE LINE WITH THE ABOVE REQUIREMENTS. THE METHOD OF DISINFECTION SHALL BE BY THE CONTINUOUS FEED METHOD UNLESS OTHERWISE APPROVED BY THE ENGINEER. AFTER FILLING, FLUSHING, AND THE INITIAL ADDITION OF CHLORINE SOLUTION, THE FREE CHLORINE CONCENTRATION WITHIN THE PIPE SHALL BE AT LEAST 20 MG/L. THE CHLORINATED WATER SHALL REMAIN IN THE MAIN FOR A PERIOD OF AT LEAST 24 HOURS. AT THE END OF THIS PERIOD, THE TREATED WATER IN ALL PORTIONS OF THE MAIN SHALL HAVE A RESIDUAL OF NOT LESS THAN 10 MG/L FREE CHLORINE. ALL DISINFECTION SHALL BE PERFORMED UNDER THE SUPERVISION OF THE ENGINEER. THE DISINFECTION PROCESS SHALL BE DEEMED ACCEPTABLE ONLY AFTER SAMPLES OF WATER FROM THE FLUSHED, DISINFECTED MAIN TAKEN BY THE ENGINEER AND TESTED AT AN APPROVED LABORATORY SHOW NO EVIDENCE OF BACTERIOLOGICAL CONTAMINATION. DISINFECTION SHALL CONFORM TO THE LATEST AWWA C651 REVISION.

THE PIPELINE AND APPURTENANCES SHALL BE MAINTAINED IN AN UNCONTAMINATED CONDITION UNTIL FINAL ACCEPTANCE. DISINFECTION SHALL BE REPEATED WHEN AND WHERE REQUIRED AT NO EXPENSE TO THE OWNER UNTIL FINAL ACCEPTANCE BY THE OWNER.

- ALL NEW WATER MAIN PIPE SHALL BE OF THE SIZE AND TYPE SHOWN ON THE PLANS. C152, CEMENT LINED DUCTILE IRON, SHALL BE IN ACCORDANCE WITH AWWA C-151, C-104, AND C-111. PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C-900. ALL FITTINGS SHALL BE CEMENT-LINED DUCTILE IRON, 350 POUNDS WORKING PRESSURE, AND CONFORM TO AWWA C-104, C-111, AND C-110 OR C-153 FOR COMPACT FITTINGS. MECHANICAL JOINT NUTS AND BOLTS SHALL BE HIGH STRENGTH, LOW ALLOY STEEL PER ANSI A-21.11.
- ALL HYDRANTS SHALL BE KENNEDY MODEL 81A, MUELLER SUPER CENTURION 200, OR EQUAL AND CONFORM TO AWWA C-502 WITH A 5 1/4" VALVE OPENING, A MECHANICAL JOINT INLET, A 6" MECHANICAL JOINT SIDE, AND BE LEFT OPENING WITH NATIONAL STANDARD THREADS. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN AUXILIARY VALVE OF THE TYPE INDICATED ON THE CONTRACT DRAWINGS AND A LENGTH OF 6" DUCTILE IRON PIPE SUFFICIENT TO CONNECT THE HYDRANT TO THE MAIN.
- ALL GATE VALVES SHALL BE STONE BEDDED IN A MINIMUM OF 6" OF 3/4" - 1" STONE. ALL VALVES SHALL BE MECHANICAL JOINT, CAST IRON BODY, PARALLEL BRASS SEATS, NON-RISING STEM, INSIDE SCREW, RESILIENT SEAT CONSTRUCTION WITH O-RING STEM SEALS.
- ALL WATER MAIN THRUST BLOCKS SHALL BE CONSTRUCTED OF 3,500 PSI CONCRETE.
- THE WATER MAINS SHALL HAVE A MINIMUM DEPTH OF COVER OF 6' 6".
- ANY SURFACES, LINES, OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF THE INDIVIDUAL LOT WATER LINE SERVICES WITH THE OWNER AT THE TIME OF CONSTRUCTION.
- MECHANICAL JOINT RESTRAINTS WITH TWIST OFF NUTS SHALL BE EBAA OR SIGMA, OR APPROVED EQUAL.
- ALL MAIN LINE GATE VALVES SHALL BE BEDDED IN A MINIMUM OF 6" OF 3/4" - 1" STONE. CONCRETE SHALL NOT BE USED.
- *ALL WATERLINE AND RELATED WORK TO BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND DETAILS FOR THE INSTALLATION OF WATERLINES AND APPURTENANCES, HENCEFORTH THE CWD SPECIFICATIONS.*

SOIL TYPE - CLAY/SILT			
SIZE	6"	8"	12"
FITTINGS	11 1/4 & 22 1/2	3	4
	45'	4	8
	90'	9	16
TEES OR END CAPS	6	11	25
VALVES	3	3	3

SQ FT BEARING AREA
BASED ON 100 PSI WORKING PRESSURE PLUS 100 PSI SURGE ALLOWANCE AND BEARING CAPACITY OF 1000 LBS/SQ FT



TYPICAL TEES-DEADENDS-CAPS

TYPICAL BENDS

THRUST BLOCK END AREA

NOTE: PLACE 4 mil POLYETHYLENE BETWEEN FITTING AND THRUST BLOCK

NOTE: SEE WRITTEN SPECIFICATIONS FOR FURTHER REQUIREMENTS FOR TAPPING VALVES & SLEEVES.

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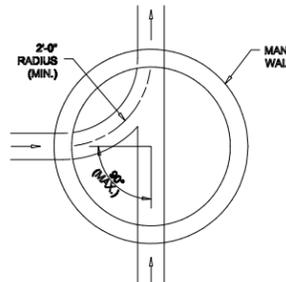
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GENERAL SANITARY SEWER SPECIFICATIONS

- SEE OTHER SHEETS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM THE BEST AVAILABLE SOURCE AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON.
- THE HORIZONTAL AND VERTICAL SEPARATION FOR SEWER AND WATER LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE "TEN STATE STANDARDS - RECOMMENDED STANDARDS FOR WATER".
- PRIOR TO CONSTRUCTION, ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER.
- STORM SEWER PIPE TO BE CORRUGATED HIGH DENSITY POLYETHYLENE PIPE (HDPE) CONFORMING TO ASTM D2321, ASTM D698 OR AASHTO T99.
- ALL SANITARY SEWER PIPE SHALL BE PVC SDR 35 CONFORMING TO ASTM D-3034, ASTM D-3212, AND ASTM F-477.
- ALL TRENCH FILL SHALL BE PLACED IN 6" LIFTS AND THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY OF OPTIMUM MOISTURE AS DETERMINED BY ASTM D968 STANDARD PROCTOR.
- ALL NEW GRAVITY SANITARY SEWER MAINS SHALL BE LEAK TESTED BY A LOW PRESSURE AIR TEST AND DEFLECTION TESTED. THE LOW PRESSURE AIR TEST WILL BE USED TO SIMULATE INFILTRATION OR EXFILTRATION INTO OR OUT OF ALL GRAVITY SANITARY SEWERS. ALL TESTING WILL BE CONDUCTED UNDER THE SUPERVISION OF THE ENGINEER. AIR TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM C828-80. THE MINIMUM ALLOWED TIME FOR A PRESSURE DROP FROM 3.5 PSI TO 2.5 PSI SHALL BE 1.2 MINUTES PER 100 FEET OF 8" SEWER. AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS, THE DEFLECTION TEST MAY BE PERFORMED. NO PIPE SHALL EXCEED A DEFLECTION OF FIVE PERCENT (5%). IF THE DEFLECTION TEST IS RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
- ALL SANITARY SEWER MANHOLES SHALL BE TESTED PRIOR TO CONSTRUCTION OF THE INVERT BY THE VACUUM TEST METHOD DESCRIBED IN THE TECHNICAL SPECIFICATIONS. THE MINIMUM ALLOWED TIME FOR A VACUUM DROP FROM 10" OF MERCURY TO 9" OF MERCURY SHALL BE 2 MINUTES.
- ANY SURFACES, LINES, OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF THE INDIVIDUAL LOT SEWER LINE SERVICES WITH THE OWNER AT THE TIME OF CONSTRUCTION.



MANHOLE CHANNEL

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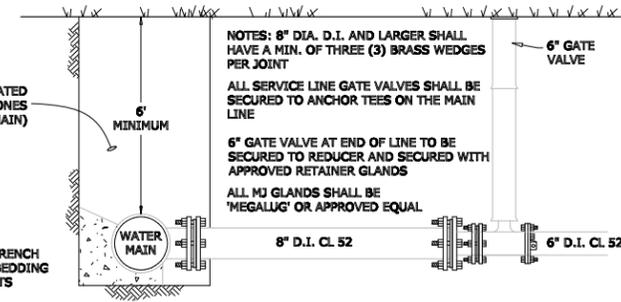
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WATER CONNECTION DETAIL

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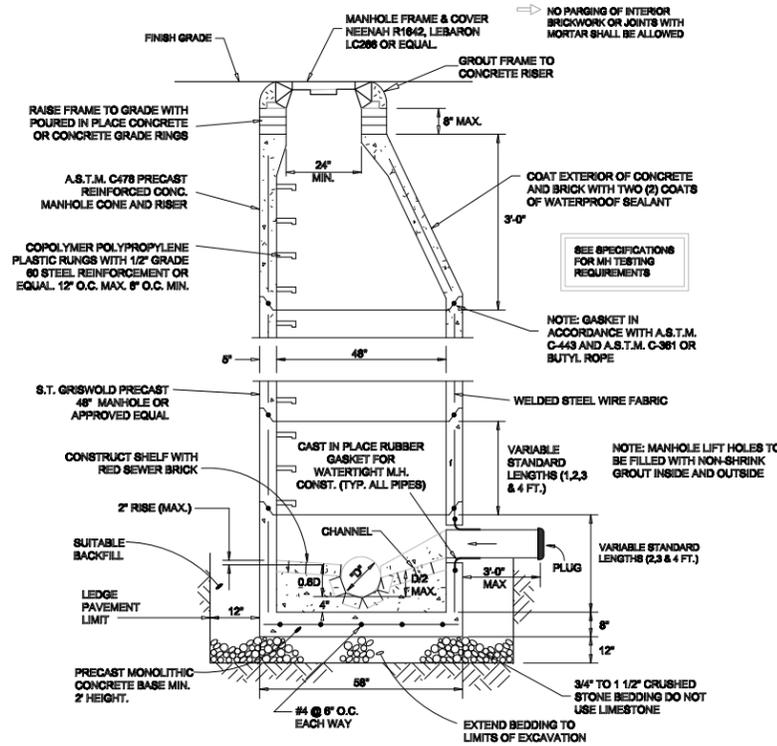
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TYPICAL PRECAST SANITARY MANHOLE

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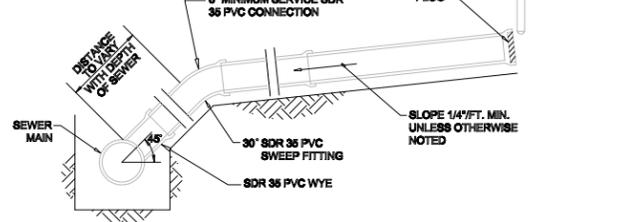
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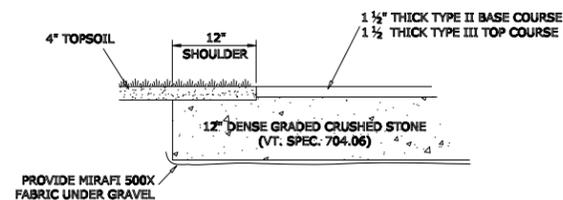


GENERAL CONSTRUCTION SPECIFICATIONS

1. THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.
2. UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON. CONTRACTOR SHALL CONNECT OR RECONNECT ALL UTILITIES TO THE NEAREST SOURCE THROUGH COORDINATION WITH UTILITY OWNER.
3. ALL WORK AND MATERIALS SHALL BE APPROVED BY AND IN ACCORDANCE WITH THE LATEST VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THESE PLANS.
4. PRIOR TO BEGINNING CONSTRUCTION, ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING VEGETATION, PAVEMENT AND STRUCTURES NECESSARY TO CONSTRUCT THIS PROJECT UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS AND TRASH FROM THE SITE UPON COMPLETION OF CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A HAZARDOUS OR A SAFETY HAZARD, WHERE AND WHEN DEEMED NECESSARY BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER OR APPLY CALCIUM CHLORIDE.
7. ANY SURFACES, LINES, OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THE CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
8. THE DESIGN ON THESE PLANS SHALL BE INSPECTED BY O'LEARY-BURKE CIVIL ASSOCIATES, P.L.C. ESSEX JUNCTION, VERMONT, TO ENSURE COMPLIANCE WITH THE PLANS AND REQUIREMENTS REQUIREMENTS. O'LEARY-BURKE WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT MAY ARISE FROM THE FAILURE OF THE CONTRACTOR TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THAT THE PLANS CONVEY, AND FROM FAILURE TO HAVE BEEN NOTIFIED TO INSPECT THE WORKS AND TESTS IN PROGRESS.
9. FOR ANY WORK WITHIN THE HIGHWAY RIGHT-OF-WAY A MINIMUM OF ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. CONTINUOUS TWO-WAY TRAFFIC WILL BE REQUIRED AT NIGHT, DURING PEAK HOURS, AND WHENEVER POSSIBLE DURING ACTUAL CONSTRUCTION ACTIVITIES. UNIFORMED TRAFFIC CONTROL OFFICERS SHALL DIRECT TRAFFIC DURING PEAK HOURS WHEN THERE IS ONE-WAY TRAFFIC OR WHEN DEEMED NECESSARY BY THE TOWN OR STATE. TEMPORARY CONSTRUCTION SIGNS AND TRAFFIC CONTROL SIGNS SHALL BE ERECTED BY THE CONTRACTOR IN ACCORDANCE WITH STATE AND TOWN STANDARDS.
10. TO ENSURE COMPLIANCE WITH THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF STARTING ANY WORK, BEGINNING THE INSTALLATION OF ANY UTILITIES BRINGING IN ANY NEW GRAVEL FOR THE NEW BASE, ALL TESTING AND FINAL INSPECTION.
11. SEE OTHER DETAIL SHEETS OF THESE PLANS FOR ADDITIONAL DETAILS, REQUIREMENTS AND SPECIFICATIONS.

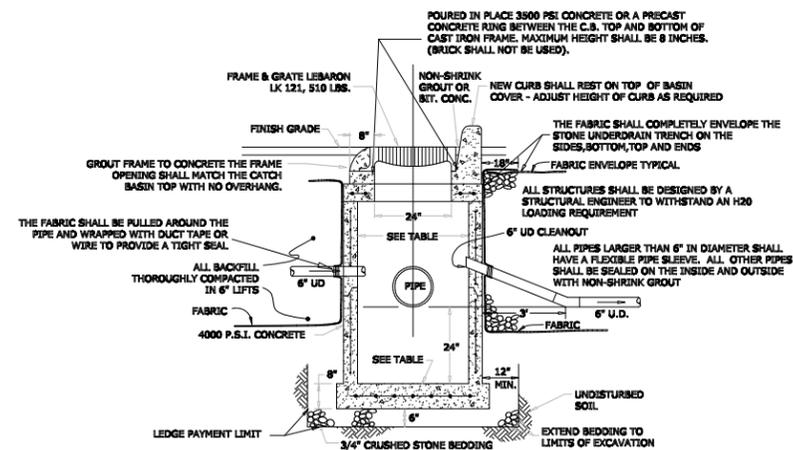
EROSION CONTROL SPECIFICATIONS

1. SEE OTHER DRAWINGS OF THESE PLANS FOR ADDITIONAL STORMWATER AND EROSION CONTROL SPECIFICATIONS AND DETAILS.
2. THE ROADWAY AND YARD FINISH GRADE SLOPES SHALL NOT BE STEEPER THAN 3 ON 1. THE FINISHED GRADE SLOPES SHALL BE IMMEDIATELY GRADED AND MULCHED.
3. ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEEDING AND MULCHING PRIOR TO OCTOBER 1 OF EACH YEAR. ANY DISTURBED AREAS OUTSIDE OF THE ROADWAY SHALL BE IMMEDIATELY SEEDED AND MULCHED WITHIN 18 DAYS.
4. THE EROSION CONTROL METHODS USED DURING CONSTRUCTION OF THE DEVELOPMENT SHALL PROCEED IN THE FOLLOWING SEQUENCE:
 - A) THE CONTRACTOR SHALL INSTALL AND MAINTAIN HAY BALE DAMS, SILT FENCES, AND OTHER EROSION CONTROL MEASURES, IF REQUIRED, AS ORDERED BY THE ENGINEER. THE EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AFTER EVERY RAINFALL UNTIL THE NEW IMPROVEMENTS ARE PAVED AND ALL DISTURBED AREAS HAVE BEEN GRASSSED. THE REPAIR OF THE EROSION CONTROL MEASURES WILL INCLUDE REMOVING ANY SEDIMENTATION. THE SEDIMENT MAY BE PLACED AS FILL IN THE LOW AREAS, IF APPROVED BY THE ENGINEER.
 - B) THE TOPSOIL SHALL BE REMOVED FROM THE AREAS TO BE GRADED AND STOCKPILED, STAKED HAY BALES OR A SILT FENCE SHALL BE PLACED CONTINUOUSLY AROUND THE BOTTOM OF THE PILE.
 - C) IN AREAS NEAR THE NEW CONSTRUCTION, THE CONTRACTOR SHALL ENCLOSE THE TRUNKS OF TREES TO BE SAVED WITH WOODEN SNOW FENCING ALONG THE DRILLLINE TO PROTECT THEM FROM INJURY.
 - D) THE SITE GRADING WILL THEN BE DONE, AND THE PIPELINES WILL BE INSTALLED IMMEDIATELY FOLLOWING GRADING. THE CONTRACTOR WILL INSTALL AND MAINTAIN HAY BALE INLET PROTECTION AROUND THE CATCH BASIN UNTIL THE ROADWAY HAS BEEN PAVED AND GRASS HAS BEEN ESTABLISHED ON THE SLOPES.
 - E) THE CONTRACTOR WILL TOPSOIL, SEED, AND MULCH THE DISTURBED AREAS AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ADJACENT CONSTRUCTION.
 - F) OPEN CUT AREAS SHALL BE MULCHED OUTSIDE OF ACTUAL WORK AREAS, AND HAY BALS SHALL BE EMPLOYED TO CONFINE SHEET WASH AND RUNOFF TO THE IMMEDIATE OPEN AREA AS ORDERED BY THE ENGINEER.
5. ROADSIDE SHALES - EROSION CONTROL MATTING SHALL BE INSTALLED WHERE THE GRADIENT EXCEEDS 2% AND STONE FILTER DAMS SHALL BE PLACED AT A SPACING NOT TO EXCEED 30'.



PARKING AREA CROSS-SECTION

NTS

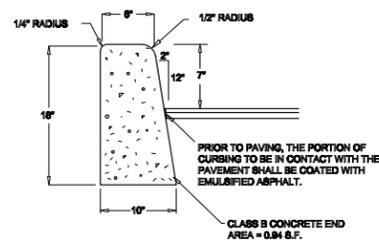


PRECAST CATCH BASIN

NTS

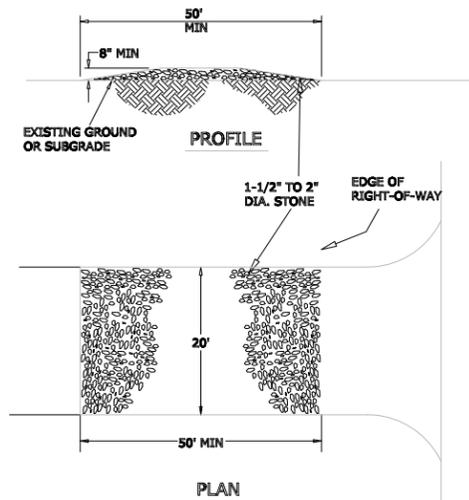
- CATCH BASINS SHALL BE SIZED SUCH THAT:
1. AT ANY ELEVATION, A MINIMUM OF 60% OF THE CIRCUMFERENCE SHALL BE CONCRETE.
 2. THE MINIMUM DISTANCE, AS MEASURED ALONG THE CIRCUMFERENCE, BETWEEN TWO OPENINGS SHALL BE 6"
 3. THE BASINS SHALL ALSO MEET THE FOLLOWING MINIMUM REQUIREMENTS:

CATCH BASIN DIAMETER	LARGEST PIPE DIA. ALLOWED	SIDEWALL THICKNESS	CONCRETE COVER THICKNESS
36"	18"	4"	6"
48"	30"	5"	10"
60"	36"	6"	12"
72"	48"	7"	18"



CONCRETE CURB

NTS

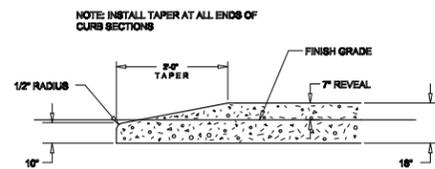


NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT TRACKED, SPILLED, OR WASHED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
2. THE USE OF CALCIUM CHLORIDE OR WATER MAY BE NECESSARY TO CONTROL DUST DURING DRY PERIODS.
3. PROVIDE APPROPRIATE TRANSITION BETWEEN CONSTRUCTION ENTRANCE AND THE EXISTING ROADWAY

STABILIZED CONSTRUCTION ENTRANCE

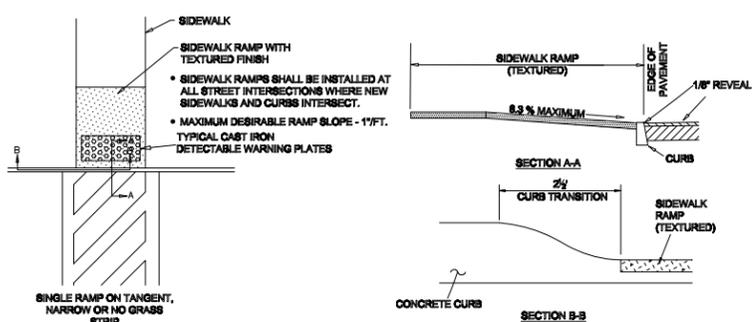
NTS



TYPICAL TAPERED CURB

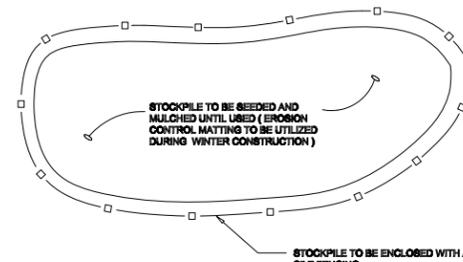
NTS

- NOTES:
- 1) CURBING SHALL BE CONSTRUCTED IN 10' SECTIONS WITH 1/8" JOINT BETWEEN SECTIONS.
 - 2) CURBING EXPANSION JOINTS SHALL BE CONSTRUCTED EVERY 20' AND SHALL BE CONSTRUCTED OF MATERIAL CONFORMING TO AASHTO DESIGNATION M-103 (1/2" SPONGE RUBBER OR CORK.)



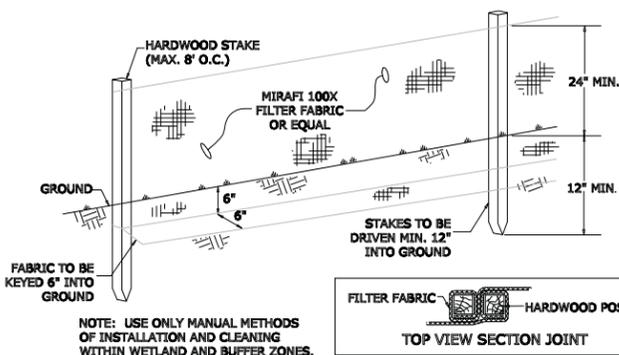
SIDEWALK RAMP

NTS



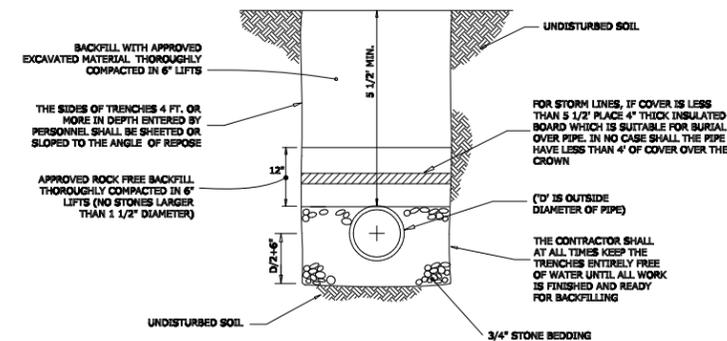
TEMPORARY TOPSOIL STOCKPILE

NTS



SILT FENCE DETAIL

NTS



TYPICAL STORM TRENCH

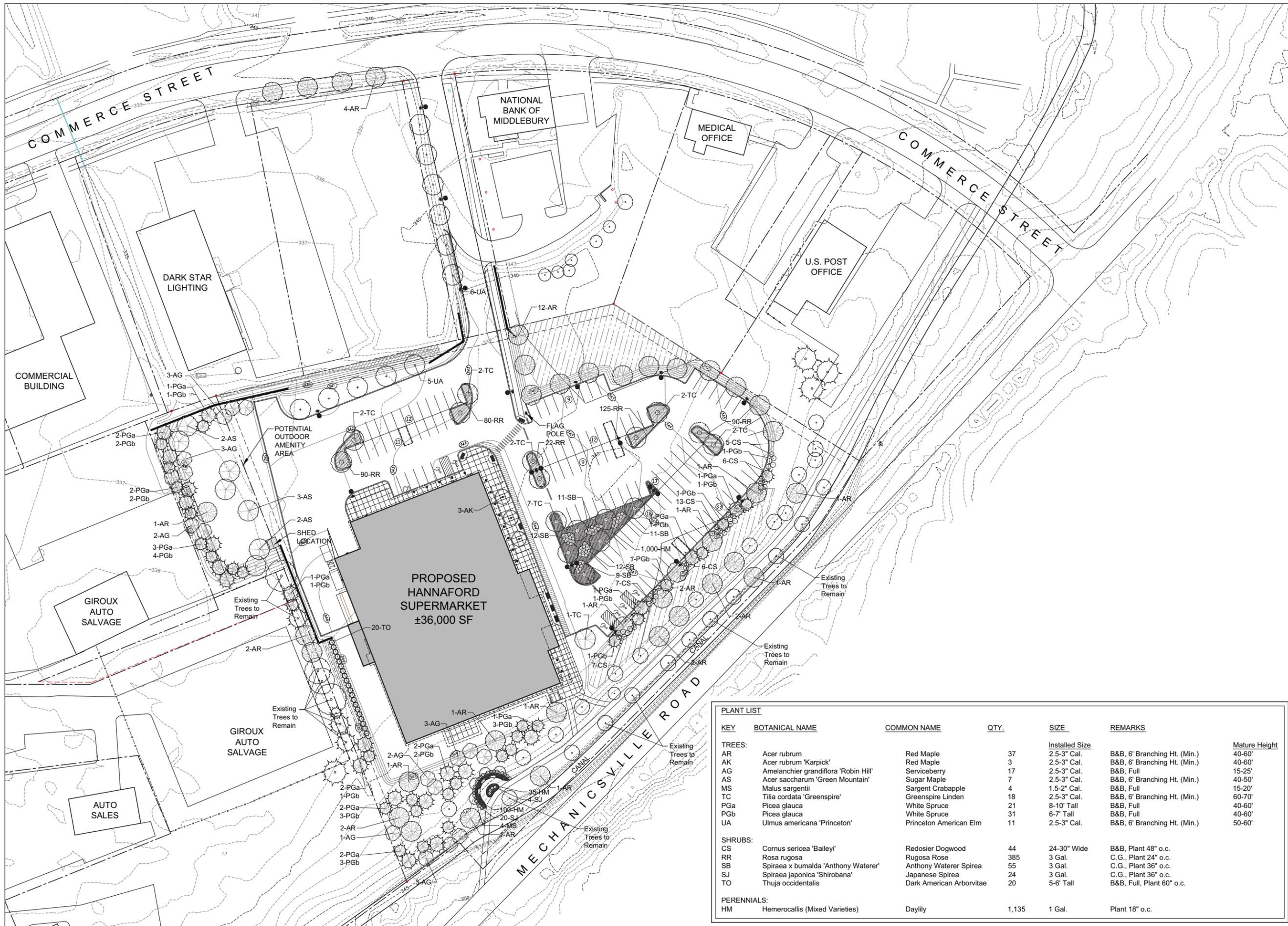
NTS



DATE	REVISION	DESCRIPTION	BY
3-11-13		REVISED VT 116 LANE MARKINGS TO REFLECT RECENT UPGRADES	BJB
2-27-13		REVISED STORM DESIGN PER CONFLICT WITH LANDSCAPING PLAN	BJB
4-26-12		REVISED BUILDING FOOTPRINT, PARKING LAYOUT, BOUNDARY LINE ADJUSTMENT	BJB
7-20-11		PLAN CHANGES PER HINSEBURG COMMENTS	PJO
		DATE	11-09-10
		JOB#	9066
		FILE	CURRENT
		PLAN SHEET #	C8

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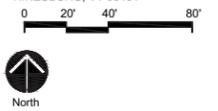
OWNER
 BERNARD A. GIROUX TRUST
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 VICTOR T. GIROUX TRUST
 RAMONA. GIROUX TRUST
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 P.O. BOX 220
 HINESBURG, VT 05461



Scale: 1" = 40'
 Date: 11/09/10
 Drawn By: mkw
 Checked By: mph

Revisions:

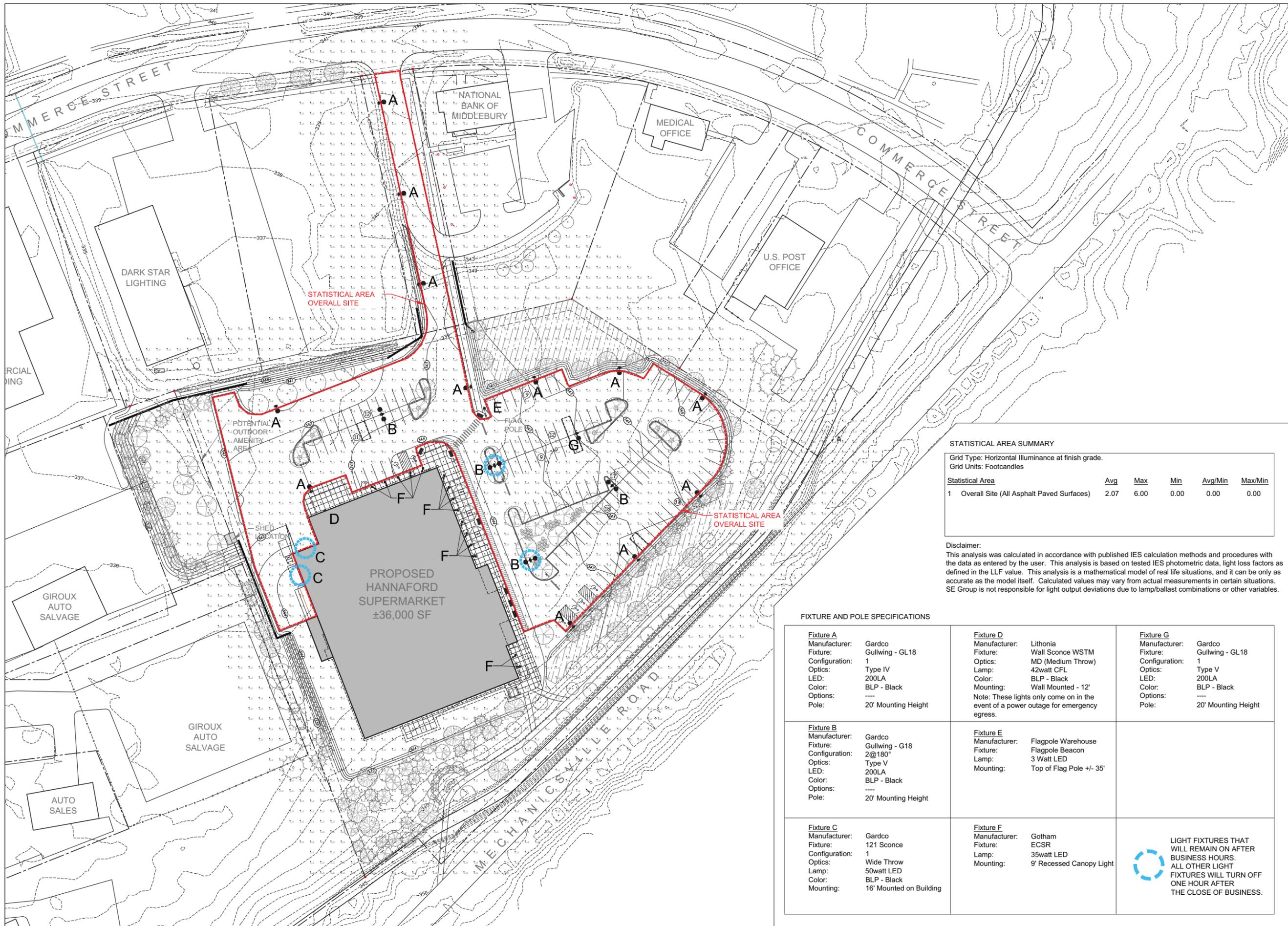
Rev.	Description	Date	By
4	Amended application	02/22/13	mkw
3	Amended application with revised building and site plan design.	04/26/12	mkw
2	Amended application with revised site plan design.	7/26/11	mkw
1	Added mature tree heights.	11/17/10	mkw

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS	Mature Height
TREES:						
AR	Acer rubrum	Red Maple	37	2.5-3" Cal.	B&B, 6' Branching Ht. (Min.)	40-60'
AK	Acer rubrum 'Karpick'	Red Maple	3	2.5-3" Cal.	B&B, 6' Branching Ht. (Min.)	40-60'
AG	Amelanchier grandiflora 'Robin Hill'	Serviceberry	17	2.5-3" Cal.	B&B, Full	15-25'
AS	Acer saccharum 'Green Mountain'	Sugar Maple	7	2.5-3" Cal.	B&B, 6' Branching Ht. (Min.)	40-50'
MS	Malus sargentii	Sargent Crabapple	4	1.5-2" Cal.	B&B, Full	15-20'
TC	Tilia cordata 'Greenspire'	Greenspire Linden	18	2.5-3" Cal.	B&B, 6' Branching Ht. (Min.)	60-70'
PGa	Picea glauca	White Spruce	21	8-10' Tall	B&B, Full	40-60'
PGB	Picea glauca	White Spruce	31	6-7' Tall	B&B, Full	40-60'
UA	Ulmus americana 'Princeton'	Princeton American Elm	11	2.5-3" Cal.	B&B, 6' Branching Ht. (Min.)	50-60'
SHRUBS:						
CS	Cornus sericea 'Bailey'	Redosier Dogwood	44	24-30" Wide	B&B, Plant 48" o.c.	
RR	Rosa rugosa	Rugosa Rose	385	3 Gal.	C.G., Plant 24" o.c.	
SB	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Spirea	55	3 Gal.	C.G., Plant 36" o.c.	
SJ	Spiraea japonica 'Shirobana'	Japanese Spirea	24	3 Gal.	C.G., Plant 36" o.c.	
TO	Thuja occidentalis	Dark American Arborvitae	20	5-6' Tall	B&B, Full, Plant 60" o.c.	
PERENNIALS:						
HM	Hemerocallis (Mixed Varieties)	Daylily	1,135	1 Gal.	Plant 18" o.c.	

Title: **PLANTING PLAN**

Sheet Number: **L1**

Project Number:
 File:



STATISTICAL AREA SUMMARY

Grid Type: Horizontal Illuminance at finish grade.
Grid Units: Footcandles

Statistical Area	Avg	Max	Min	Avg/Min	Max/Min
1 Overall Site (All Asphalt Paved Surfaces)	2.07	6.00	0.00	0.00	0.00

Disclaimer:
This analysis was calculated in accordance with published IES calculation methods and procedures with the data as entered by the user. This analysis is based on tested IES photometric data, light loss factors as defined in the LLF value. This analysis is a mathematical model of real life situations, and it can be only as accurate as the model itself. Calculated values may vary from actual measurements in certain situations. SE Group is not responsible for light output deviations due to lamp/ballast combinations or other variables.

FIXTURE AND POLE SPECIFICATIONS

<p>Fixture A Manufacturer: Gardco Fixture: Gullwing - GL18 Configuration: 1 Optics: Type IV LED: 200LA Color: BLP - Black Options: ---- Pole: 20' Mounting Height</p>	<p>Fixture D Manufacturer: Lithonia Fixture: Wall Sconce WSTM Optics: MD (Medium Throw) Lamp: 42watt CFL Color: BLP - Black Mounting: Wall Mounted - 12' Note: These lights only come on in the event of a power outage for emergency egress.</p>	<p>Fixture G Manufacturer: Gardco Fixture: Gullwing - GL18 Configuration: 1 Optics: Type V LED: 200LA Color: BLP - Black Options: ---- Pole: 20' Mounting Height</p>
<p>Fixture B Manufacturer: Gardco Fixture: Gullwing - G18 Configuration: 2@180° Optics: Type V LED: 200LA Color: BLP - Black Options: ---- Pole: 20' Mounting Height</p>	<p>Fixture E Manufacturer: Flagpole Warehouse Fixture: Flagpole Beacon Lamp: 3 Watt LED Mounting: Top of Flag Pole +/- 35'</p>	
<p>Fixture C Manufacturer: Gardco Fixture: 121 Sconce Configuration: 1 Optics: Wide Throw Lamp: 50watt LED Color: BLP - Black Mounting: 16' Mounted on Building</p>	<p>Fixture F Manufacturer: Gotham Fixture: ECSR Lamp: 35watt LED Mounting: 9' Recessed Canopy Light</p>	<p>LIGHT FIXTURES THAT WILL REMAIN ON AFTER BUSINESS HOURS. ALL OTHER LIGHT FIXTURES WILL TURN OFF ONE HOUR AFTER THE CLOSE OF BUSINESS.</p>



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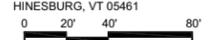
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Scale: 1" = 40'
Date: 11/09/10
Drawn By: mkw
Checked By: mph

Revisions:

4	Amended application	02/22/13	mkw
3	Amended application with revised building and site plan design.	04/26/12	mkw
2	Amended application with revised site plan design.	7/26/11	mkw
1	Added mature tree heights.	11/17/10	mkw

Rev.	Description	Date	By

Title
LIGHTING PLAN

Sheet Number:
L2

Project Number:
File:



Hinesburg, Vermont

LANDSCAPE ARCHITECT



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North

Scale: AS NOTED

Date: 11/09/10

Drawn By: mkw

Checked By: mph

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Rev. Description Date By

Title
LANDSCAPE DETAILS

Sheet Number:

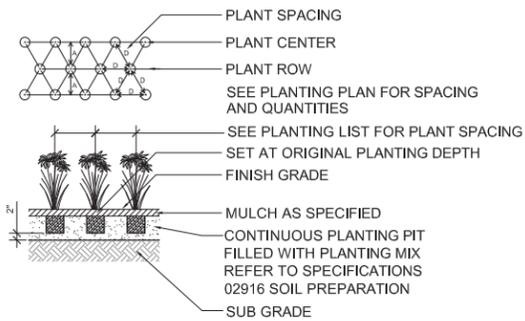
L3

Project Number:

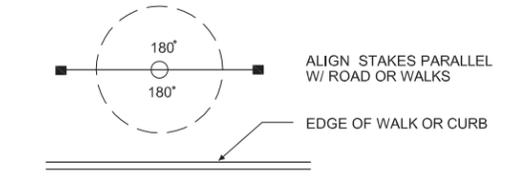
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SPACING "D"	ROW "A"	NUMBER OF PLANTS/SQ. FT.
36" O.C.	31.20"	.12
30" O.C.	26.00"	.18
24" O.C.	20.76"	.28
12" O.C.	10.44"	1.15
10" O.C.	8.64"	1.66
8" O.C.	6.96"	2.60
6" O.C.	5.16"	4.61

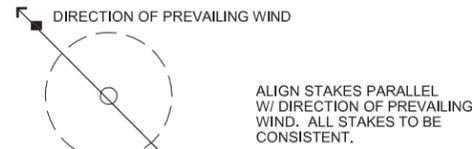
NOTE:
PLANT QUANTITIES DETERMINED BY MULTIPLYING AREA (SQ. FT.)
BY NUMBER OF PLANTS/SQ. FT. FOR REQUIRED SPACING.



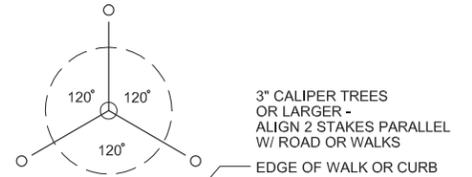
E PERENNIAL PLANTING
SCALE: 1/2" = 1'-0"



A. TREE STAKING ALONG ROAD OR WALKS



B. TREE STAKING IN OPEN SPACES



C. TREE GUYING

C TREE STAKING LAYOUT
NO SCALE

p-stake.dwg

NOTE: EXAMINE ENTIRE TREE AND REMOVE ALL NURSERY TAGS, ROPE, STRING, OR SURVEYORS TAPE TO PREVENT FUTURE GIRDLING.

SURROUNDING SOIL SHOULD NOT EXCEED 80% COMPACTION, DRAINAGE WILL BE REQUIRED IF COMPACTED SOILS ARE PRESENT

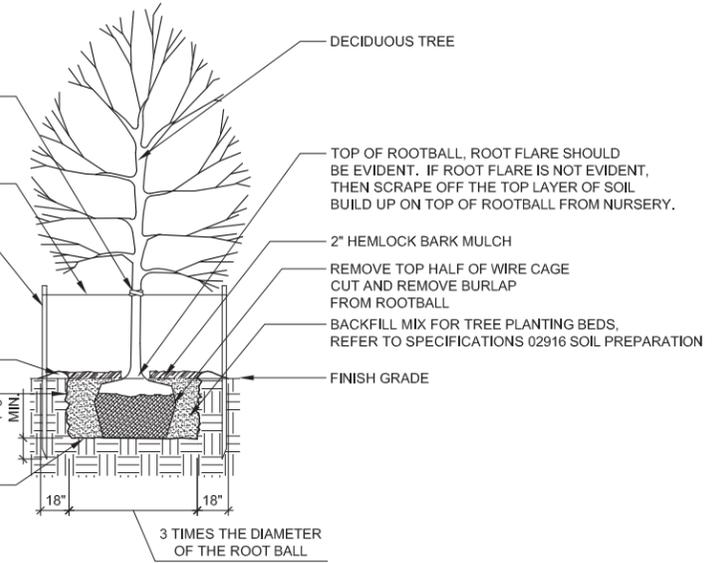
NYLON STRAP WITH 3/4" GROMMETS, REFER TO SPECIFICATIONS

FASTEN WIRE BELOW POINT OF MAJOR BRANCHING OR TO MAJOR OUTSIDE TRUNK.

2 3/4" HARDWOOD STAKES. ALIGN STAKES PARALLEL W/ ROAD/WALKS OR PARALLEL W/ DIRECTION OF PREVAILING WIND, REFER TO TREE STAKING DETAIL

TEMPORARY WATERING BASIN
BREAK APART EDGE OF EXCAVATION W/ SHOVEL AND BLEND PLANT MIX W/ EXISTING SOIL TO PROVIDE TRANSITION TO UNDISTURBED GRADE

UNDISTURBED GRADE
EXCAVATE ONLY TO SPECIFIED PLANTING DEPTH TO ENSURE STABLE BASE



A TREE PLANTING
SCALE 1/4" = 1'-0"

p-decidtree.dwg

NOTE:
EXAMINE ENTIRE TREE AND REMOVE ALL NURSERY TAGS, ROPE, STRING, OR SURVEYORS TAPE TO PREVENT FUTURE GIRDLING.

SURROUNDING SOIL SHOULD NOT EXCEED 80% COMPACTION, DRAINAGE WILL BE REQUIRED IF COMPACTED SOILS ARE PRESENT

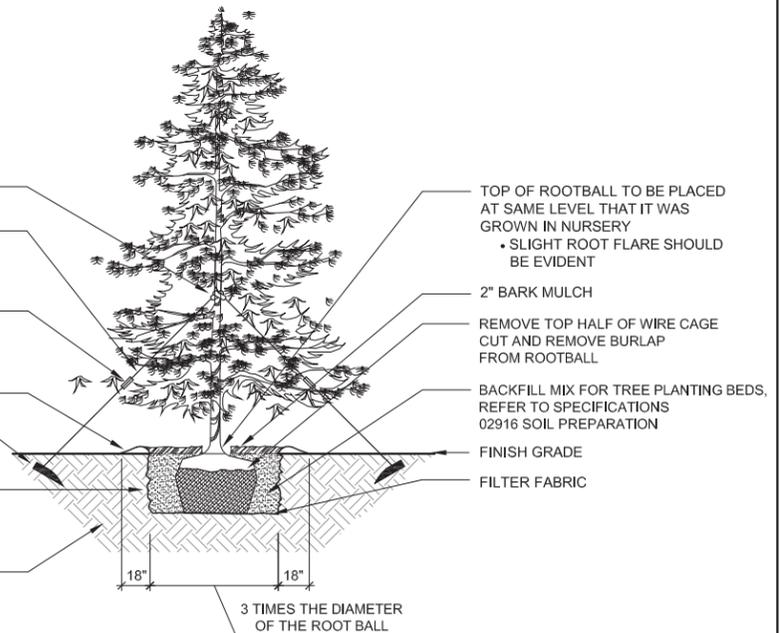
12" X 1 1/2" NYLON/COTTON WEAVE TIES WITH 3/4" GROMMETS
1/8" X 7 X 7 STEEL CABLE FASTENED W/ (2) ZINC PLATED CABLE CLAMPS. COVER GUYS W/3" OF 3/8" DIA. SLIP PLASTIC TUBING.

TURNBUCKLE, EYE & EYE, ZINC PLATED, 10 5/8" OPEN LENGTH, 3/8" THREAD DIA. INSTALL W/ TURNBUCKLE IN OPEN POSITION.

TEMPORARY WATERING BASIN
(3) DUCKBILL TYPE ANCHORS

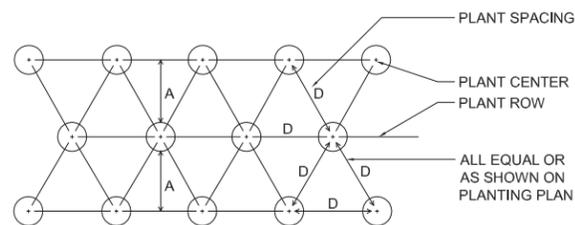
BREAK APART EDGE OF EXCAVATION W/ SHOVEL AND BLEND PLANT MIX W/ EXISTING SOIL TO PROVIDE TRANSITION TO UNDISTURBED GRADE.

UNDISTURBED GRADE:
EXCAVATE ONLY TO SPECIFIED PLANTING DEPTH TO ENSURE STABLE BASE



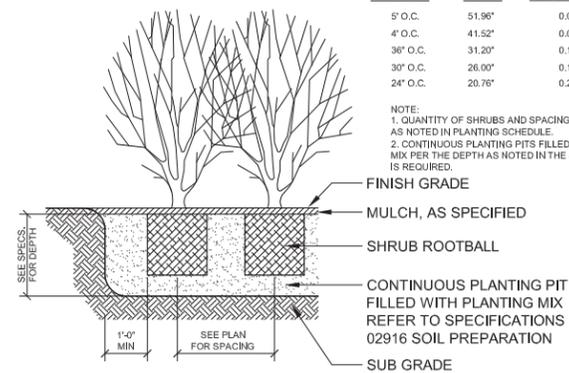
B EVERGREEN PLANTING
SCALE 1/4" = 1'-0"

p-evertree.dwg

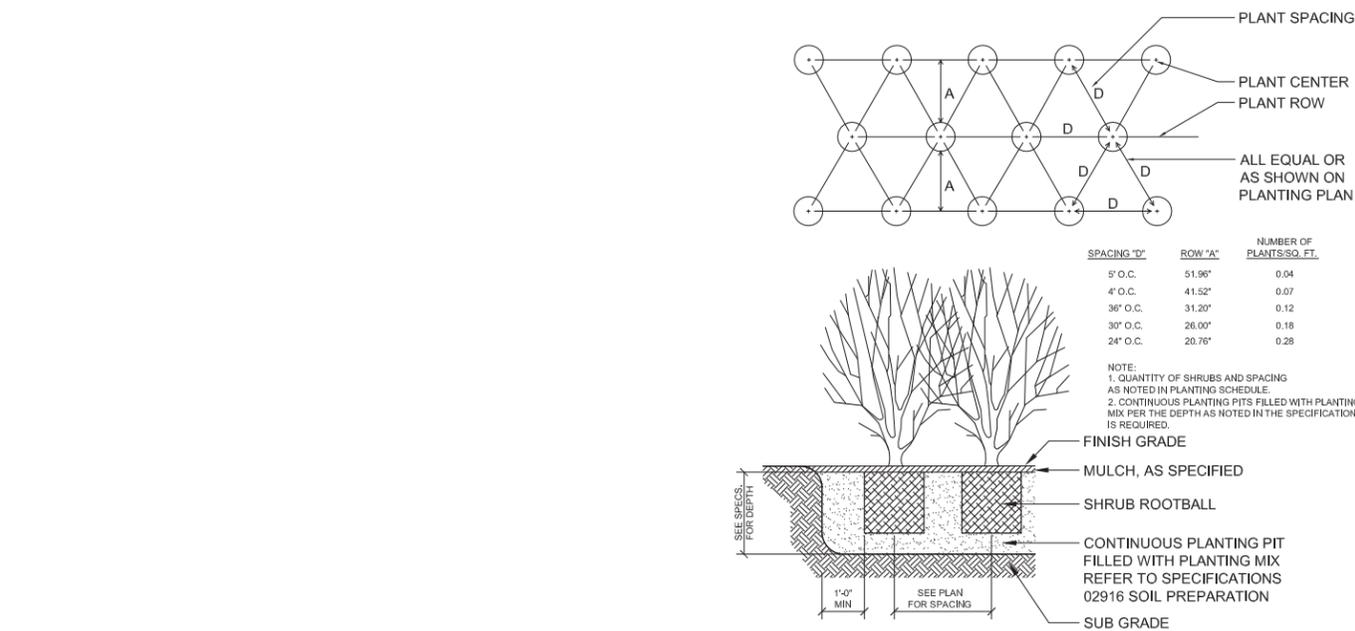


SPACING "D"	ROW "A"	NUMBER OF PLANTS/SQ. FT.
5' O.C.	51.96"	0.04
4' O.C.	41.52"	0.07
36" O.C.	31.20"	0.12
30" O.C.	26.00"	0.18
24" O.C.	20.76"	0.28

NOTE:
1. QUANTITY OF SHRUBS AND SPACING AS NOTED IN PLANTING SCHEDULE.
2. CONTINUOUS PLANTING PITS FILLED WITH PLANTING MIX PER THE DEPTH AS NOTED IN THE SPECIFICATIONS IS REQUIRED



D SHRUB PLANTING
SCALE: 1/2" = 1'-0"



D SHRUB PLANTING
SCALE: 1/2" = 1'-0"

Legend

- PROPERTY BOUNDARY
 - - - OTHER PROPERTY LINE
 - - - SIDELINE OF EASEMENT
 - - - 344 - - - CONTOUR LINE (USGS & DATUM)
 - - - 340 - - - PROPOSED FINISH GRADE CONTOUR
 - ~ ~ ~ EDGE OF WOODED AREA
 - ~ ~ ~ EDGE OF WETLAND (CLASS II)
 - EXISTING IRON PIPE
 - EXISTING CONCRETE MONUMENT
 - IRON PIPE (TO BE SET)
 - PROPERTY BOUNDARY
 - - - CHAIN LINK FENCE
 - - - ETC - - - EXISTING ELECTRIC/TELEPHONE LINE
 - - - S - - - EXISTING SEWERLINE
 - - - W - - - EXISTING STORMLINE
 - - - W - - - EXISTING WATERLINE
 - EXISTING/PROPOSED HYDRANT
 - AdD ■ ■ ■ ■ ■ SOIL TYPE & BOUNDARY
- (NOTE: PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE)

Soil Types

- L₀ LIMERICK SILT LOAM
- L₁ LIMERICK SILT LOAM, VERY WET
- M₁B MUNSON AND RAYNHAM SILT LOAMS, 2 TO 6 PERCENT SLOPES
- W₀ WINOOSKI VERY FINE SANDY LOAM

Storm System Information

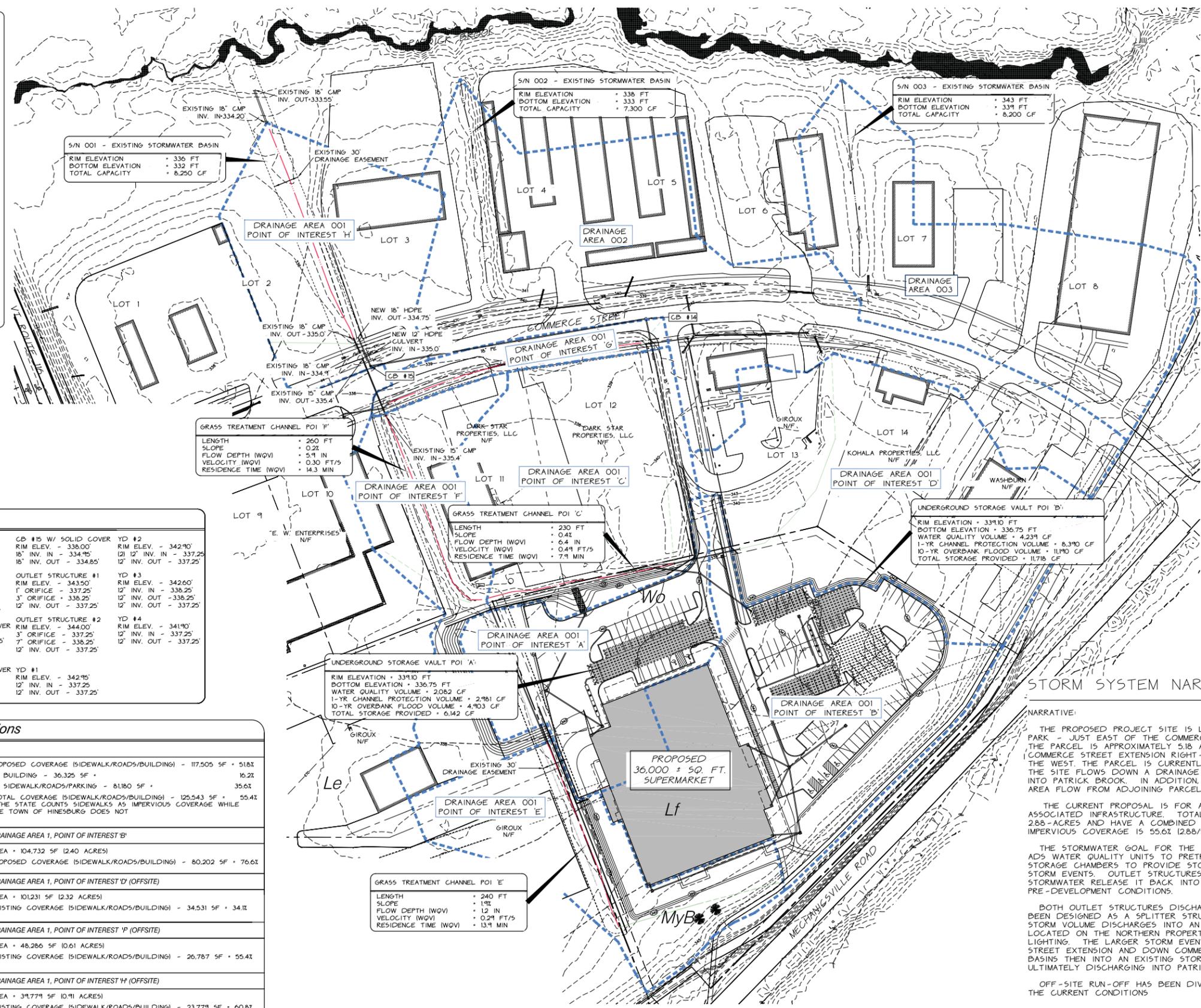
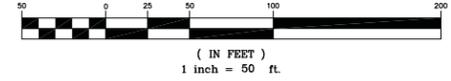
CB #1 RIM ELEV. - 342.50' 12" INV. IN - 338.30' 12" INV. OUT - 338.30'	CB #6 RIM ELEV. - 343.75' 12" INV. IN - 339.05' 12" INV. OUT - 339.05'	CB #10 RIM ELEV. - 341.00' 12" INV. IN - 338.10' 12" INV. OUT - 338.10'	CB #15 W/ SOLID COVER RIM ELEV. - 338.00' 18" INV. IN - 334.95' 18" INV. OUT - 334.85'	YD #2 RIM ELEV. - 342.90' (2) 12" INV. IN - 337.25' 12" INV. OUT - 337.25'
CB #2 RIM ELEV. - 342.50' 12" INV. IN - 338.55' 12" INV. OUT - 338.55'	CB #7 RIM ELEV. - 342.00' 12" INV. IN - 339.40' 12" INV. OUT - 339.40'	CB #11 RIM ELEV. - 341.00' 12" INV. IN - 338.50' 12" INV. OUT - 338.50'	OUTLET STRUCTURE #1 RIM ELEV. - 343.50' 3" ORIFICE - 337.25' 3" ORIFICE - 338.25'	YD #3 RIM ELEV. - 342.60' 12" INV. IN - 338.25' 12" INV. OUT - 338.25'
CB #3 RIM ELEV. - 342.50' 12" INV. IN - 339.35' 12" INV. OUT - 339.35'	CB #8 RIM ELEV. - 344.00' 6" INV. IN - 340.20' 12" INV. OUT - 340.20'	CB #12 RIM ELEV. - 342.90' 11 1/2" INV. IN - 339.90' 11 1/2" INV. OUT - 339.90'	OUTLET STRUCTURE #2 RIM ELEV. - 344.00' 3" ORIFICE - 337.25' 7" ORIFICE - 338.25'	YD #4 RIM ELEV. - 341.90' 12" INV. IN - 337.25' 12" INV. OUT - 337.25'
CB #4 RIM ELEV. - 343.75' (2) 12" INV. IN - 338.65' 12" INV. OUT - 338.65'	CB #9 RIM ELEV. - 341.00' 6" INV. IN - 337.25' 12" INV. OUT - 337.25'	CB #13 W/ SOLID COVER RIM ELEV. - 343.00' (2) 12" INV. IN - 336.75' 12" INV. OUT - 336.75'	CB #14 W/ SOLID COVER RIM ELEV. - 341.50' 18" INV. IN - 336.00' 18" INV. OUT - 336.00'	YD #1 RIM ELEV. - 342.95' 12" INV. IN - 337.25' 12" INV. OUT - 337.25'
CB #5 RIM ELEV. - 343.75' 12" INV. IN - 339.50' 12" INV. OUT - 339.50'				

Coverage Calculations

TOTAL PARCEL COVERAGE	
PARCEL AREA (EXISTING) = 198,624 SF (4.56 ACRES)	PROPOSED COVERAGE (SIDEWALKS/ROADS/BUILDING) = 117,505 SF = 51.8%
PARCEL AREA (PROPOSED) = 224,845 SF (5.16 ACRES)	BUILDING = 36,325 SF = 16.2%
EXISTING COVERAGE (ROADS/SIDEWALKS) = 8,038 SF = 3.6%	SIDEWALKS/ROADS/PARKING = 81,180 SF = 35.6%
	**TOTAL COVERAGE (SIDEWALKS/ROADS/BUILDING) = 125,543 SF = 55.4%
	**THE STATE COUNTS SIDEWALKS AS IMPERVIOUS COVERAGE WHILE THE TOWN OF HINESBURG DOES NOT
DRAINAGE AREA 1, POINT OF INTEREST 'A'	DRAINAGE AREA 1, POINT OF INTEREST 'B'
AREA = 50,305 SF (1.15 ACRES)	AREA = 104,732 SF (2.40 ACRES)
PROPOSED COVERAGE (SIDEWALKS/ROADS/BUILDING) = 37,303 SF = 74.1%	PROPOSED COVERAGE (SIDEWALKS/ROADS/BUILDING) = 80,202 SF = 76.6%
DRAINAGE AREA 1, POINT OF INTEREST 'C' (OFFSITE)	DRAINAGE AREA 1, POINT OF INTEREST 'D' (OFFSITE)
AREA = 74,064 SF (1.70 ACRES)	AREA = 101,231 SF (2.32 ACRES)
EXISTING COVERAGE (SIDEWALKS/ROADS/BUILDING) = 29,184 SF = 39.4%	EXISTING COVERAGE (SIDEWALKS/ROADS/BUILDING) = 34,531 SF = 34.1%
DRAINAGE AREA 1, POINT OF INTEREST 'E' (OFFSITE)	DRAINAGE AREA 1, POINT OF INTEREST 'F' (OFFSITE)
AREA = 48,770 SF (1.12 ACRES)	AREA = 48,286 SF (1.06 ACRES)
EXISTING COVERAGE (SIDEWALKS/ROADS/BUILDING) = 11,769 SF = 27.0%	EXISTING COVERAGE (SIDEWALKS/ROADS/BUILDING) = 26,787 SF = 55.4%
DRAINAGE AREA 1, POINT OF INTEREST 'G' (OFFSITE)	DRAINAGE AREA 1, POINT OF INTEREST 'H' (OFFSITE)
AREA = 13,526 SF (0.31 ACRES)	AREA = 39,779 SF (0.91 ACRES)
EXISTING COVERAGE (SIDEWALKS/ROADS/BUILDING) = 5,859 SF = 43.3%	EXISTING COVERAGE (SIDEWALKS/ROADS/BUILDING) = 23,779 SF = 60.8%

*TOTAL COVERAGE IS CALCULATED FOR STORMWATER BY USING THE SIDEWALKS/ROADS/BUILDING FOR THE STATE. HINESBURG DOES NOT CONSIDER SIDEWALK AS IMPERVIOUS COVERAGE.

GRAPHIC SCALE



STORM SYSTEM NARRATIVE

NARRATIVE:

THE PROPOSED PROJECT SITE IS LOCATED IN THE HINESBURG COMMERCIAL PARK - JUST EAST OF THE COMMERCE STREET/VT ROUTE 116 INTERSECTION. THE PARCEL IS APPROXIMATELY 518 ACRES AND COMPRISED OF LOT #15, THE COMMERCE STREET EXTENSION RIGHT-OF-WAY, AND 0.32-ACRE PARCEL TO THE WEST. THE PARCEL IS CURRENTLY UNDEVELOPED AND RUN-OFF FROM THE SITE FLOWS DOWN A DRAINAGE DITCH, UNDER COMMERCE STREET, AND INTO PATRICK BROOK. IN ADDITION, THE PARCEL RECEIVES SOME UPLAND AREA FLOW FROM ADJOINING PARCELS.

THE CURRENT PROPOSAL IS FOR A 36,000 +/- SQ. FT. SUPERMARKET WITH ASSOCIATED INFRASTRUCTURE. TOTAL SITE IMPERVIOUS AREA WILL BE 2.88-ACRES AND HAVE A COMBINED DRAINAGE AREA OF 3.56-ACRES. THE IMPERVIOUS COVERAGE IS 55.6% (2.88/5.18).

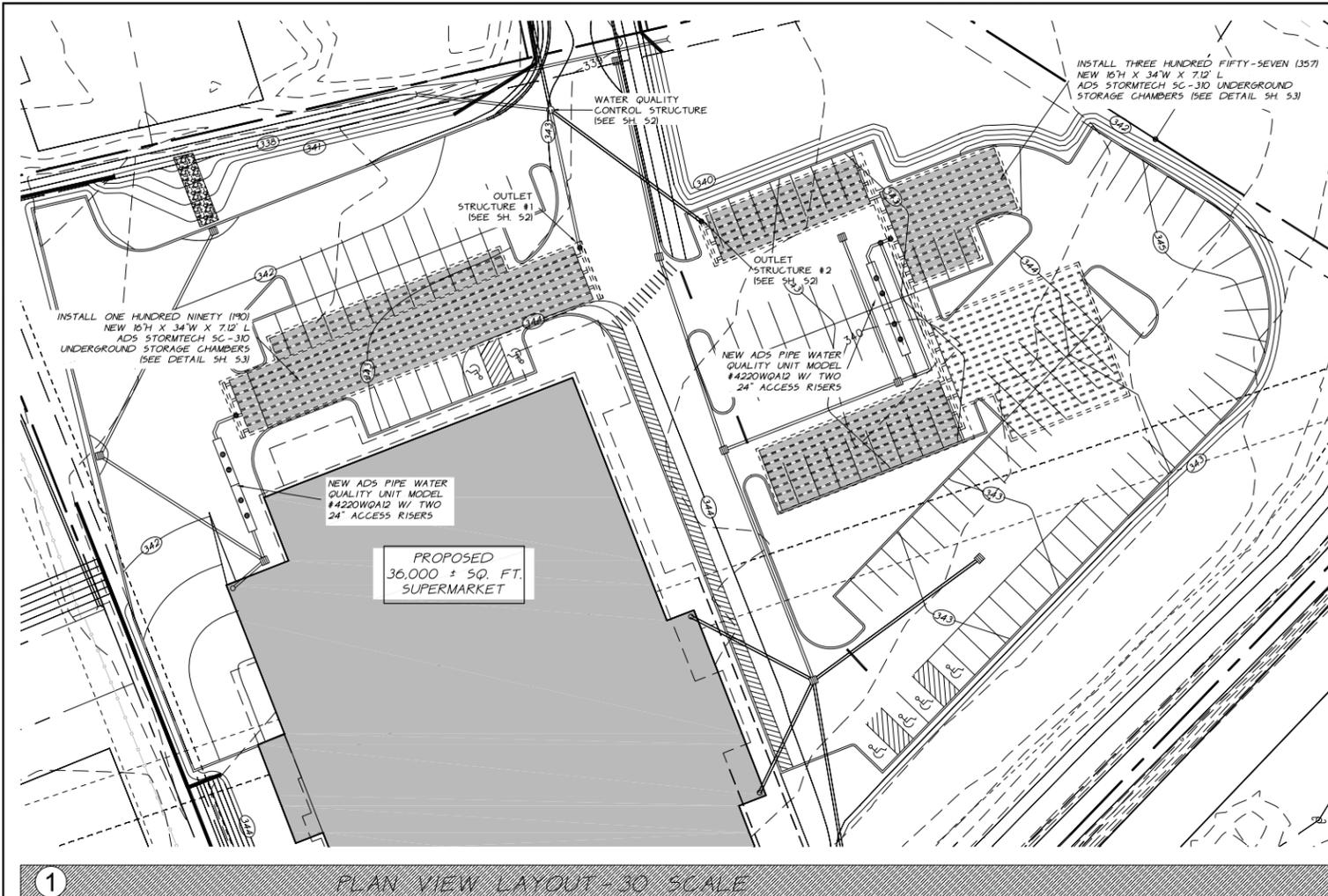
THE STORMWATER GOAL FOR THE PROPOSED PROJECT IS TO UTILIZE AN ADS-WATER QUALITY UNITS TO PRETREAT THE WATER AND UNDERGROUND STORAGE CHAMBERS TO PROVIDE STORAGE DURING THE 1-YR AND 10-YR STORM EVENTS. OUTLET STRUCTURES HAVE BEEN SIZED TO DETAIN THE STORMWATER RELEASE IT BACK INTO THE WATERSHED AT A RATE LESS THAN PRE-DEVELOPMENT CONDITIONS.

BOTH OUTLET STRUCTURES DISCHARGE TO CATCH BASIN #13 WHICH HAS BEEN DESIGNED AS A SPLITTER STRUCTURE. THE SMALLER WATER QUALITY STORM VOLUME DISCHARGES INTO AN EXISTING GRASS TREATMENT SWALE LOCATED ON THE NORTHERN PROPERTY LINE SHARED WITH DARKSTAR LIGHTING. THE LARGER STORM EVENTS ARE DIVERTED DOWN COMMERCE STREET EXTENSION AND DOWN COMMERCE STREET VIA A NETWORK OF CATCH BASINS THEN INTO AN EXISTING STORMWATER TREATMENT SWALE BEFORE ULTIMATELY DISCHARGING INTO PATRICK BROOK.

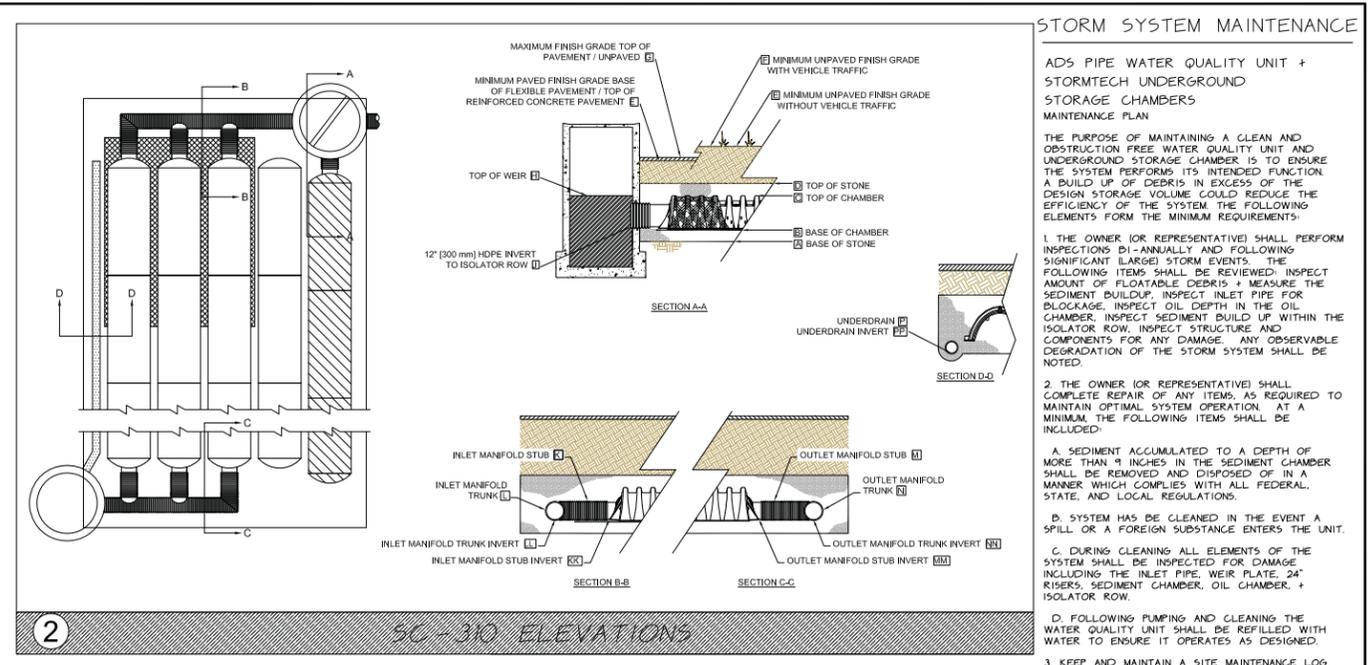
OFF-SITE RUN-OFF HAS BEEN DIVERTED AROUND THE PROJECT TO MIMIC THE CURRENT CONDITIONS.



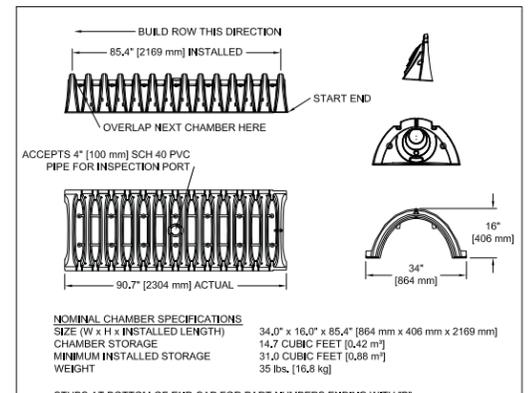
DATE: 03-11-13	REVISION: CORRECTED BUILDING SIZE LABEL	BY: BJB
SURVEY: OBCA	<input type="checkbox"/> RECORD DRAWING <input type="checkbox"/> PRELIMINARY	DATE: 08-21-12
DESIGN: OBCA	<input checked="" type="checkbox"/> FINAL <input type="checkbox"/> SKETCH/CONCEPT	JOB#: 9066
DRAWN: BJB		FILE: 9066-STORM
CHECKED: FJO		PLAN SHEET #
SCALE: 1"=50'	1 CORPORATE DRIVE, SUITE #1 ESSEX, VT PHONE: 878-9889 FAX: 878-9889 E-MAIL: ocbca@olearyburke.com	Hannaford Supermarket & Pharmacy Commerce Street Hinesburg, VT
		STORMWATER MANAGEMENT PLAN
		S1



1 PLAN VIEW LAYOUT - 30 SCALE



2 SC-310 ELEVATIONS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W x H x INSTALLED LENGTH)	34.0' x 16.0' x 85.4' [864 mm x 406 mm x 2169 mm]
CHAMBER STORAGE	14.7 CUBIC FEET [0.42 m ³]
MINIMUM INSTALLED STORAGE	31.0 CUBIC FEET [0.88 m ³]
WEIGHT	35 lbs. [16.8 kg]

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

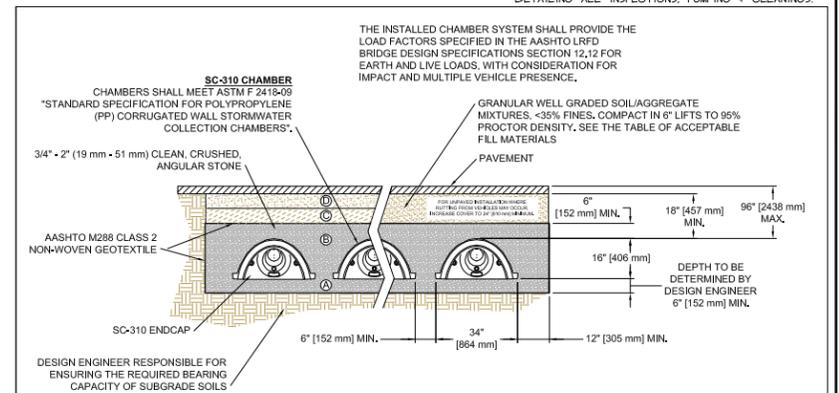
PART#	STUB	A	B	C
SC310EPE08T	6" [150 mm]	9.80" [244 mm]	5.80" [147 mm]	N/A
SC310EPE08B	6" [150 mm]	9.80" [244 mm]	N/A	0.50" [13 mm]
SC310EPE08T	8" [200 mm]	11.90" [302 mm]	3.50" [89 mm]	N/A
SC310EPE08B	8" [200 mm]	11.90" [302 mm]	N/A	0.60" [15 mm]
SC310EPE10T	10" [250 mm]	12.70" [323 mm]	1.40" [36 mm]	N/A
SC310EPE10B	10" [250 mm]	12.70" [323 mm]	N/A	0.70" [18 mm]
*SC310EPE12B	12" [300 mm]	13.50" [343 mm]	N/A	0.90" [23 mm]

NOTE: ALL DIMENSIONS ARE NOMINAL

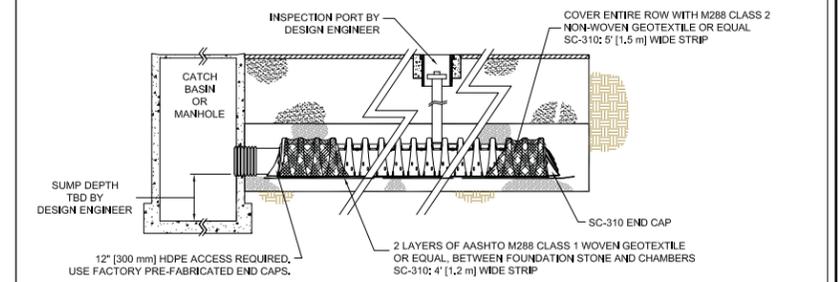
*FOR THE SC310EPE12B THE 12" [300 mm] STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" [6 mm]. BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

5 SC-310 TECHNICAL SPEC



6 SC-310 STANDARD CROSS SECTION



7 SC-310 ISOLATOR ROW DETAIL

- ALL DESIGN SPECIFICATIONS FOR STORMTECH SC-310 CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL
- THE INSTALLATION OF STORMTECH SC-310 CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS
- THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL 1-888-892-2694 OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF THE LATEST STORMTECH INSTALLATION INSTRUCTIONS
- CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND LOAD FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

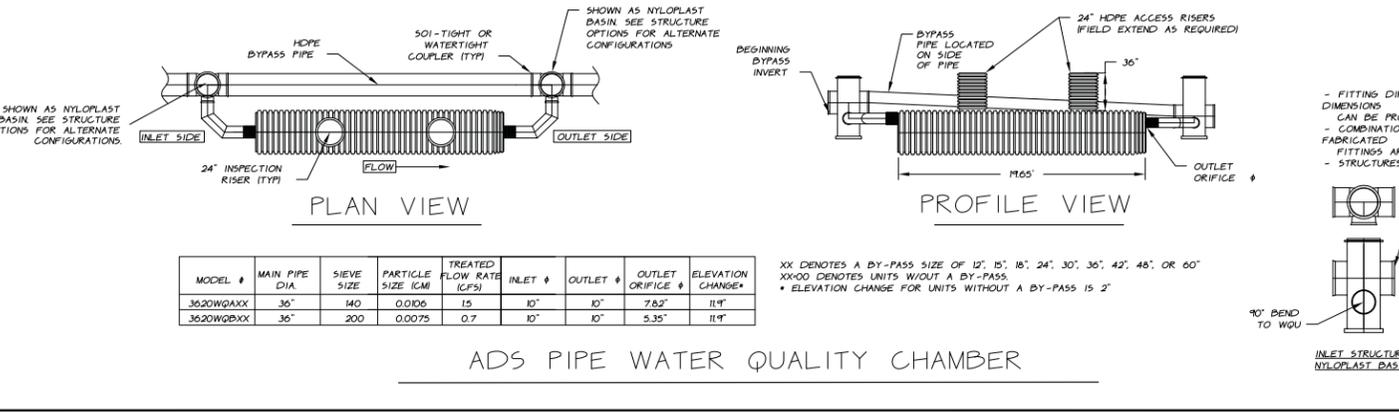
3 SC-310 NOTES

ACCEPTABLE FILL MATERIALS: SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M33 DESIGNATION ¹	COMPACTION/DENSITY REQUIREMENT
① FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISH GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THIS LAYER.	ANY SOLID ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS, CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
② FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('E' LAYER) TO 18" (457 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THIS LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, < 35% FINES. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 88, 9, 10	BEGIN COMPACTION AFTER 12" (305 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 1" (25 mm) LIFTS TO A MIN. 98% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lb (53 kN); DYNAMIC FORCE NOT TO EXCEED 20,000 lb (89 kN).
③ EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4" - 2 INCH (19-51 mm)	3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
④ FOUNDATION STONE BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4" - 2 INCH (19-51 mm)	3, 35, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A 90% STANDARD PROCTOR DENSITY.

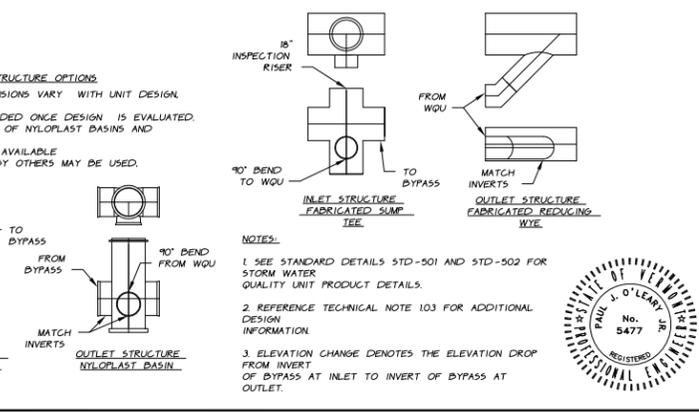
PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: 'CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE.'
2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (229 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.

4 STORMTECH ACCEPTABLE FILL MATERIALS



MODEL #	MAIN PIPE DIA.	PIEVE SIZE	PARTICLE SIZE (CM)	TREATED FLOW RATE (GFS)	INLET Ø	OUTLET Ø	OUTLET ORIFICE Ø	ELEVATION CHANGE*
3620WQXX	36"	140	0.0106	15"	10"	10"	7.82"	11"
3620WQVXX	36"	200	0.0075	0.7	10"	10"	5.35"	11"

ADS PIPE WATER QUALITY CHAMBER



NOTES:
1. SEE STANDARD DETAILS STD-501 AND STD-502 FOR STORM WATER QUALITY UNIT PRODUCT DETAILS.
2. REFERENCE TECHNICAL NOTE 103 FOR ADDITIONAL DESIGN INFORMATION.
3. ELEVATION CHANGE DENOTES THE ELEVATION DROP FROM INVERT TO INVERT OF BYPASS AT INLET TO INVERT OF BYPASS AT OUTLET.

DATE: 03-11-13	REVISION: CORRECTED BUILDING SIZE LABEL	BY: BJB
DATE: 02-27-13	REVISION: REVISED STORM DESIGN PER CONFLICT WITH LANDSCAPING PLAN	BY: BJB
SURVEY: OBCA	DESIGN: OBCA	DATE: 08-21-12
DESIGN: OBCA	DESIGN: OBCA	JOB#: 9066
DRAWN: BJB	CHECKED: PJO	FILE: 9066-STORM
SCALE: AS NOTED	SCALE: AS NOTED	PLAN SHEET #

O'LEARY-BURKE CIVIL ASSOCIATES, PLC
1 CORPORATE DRIVE, SUITE #1
ESSEX, VT 05730
PHONE: 878-9888
FAX: 878-9889
E-MAIL: ocb@olearyburke.com

Hannaford Supermarket & Pharmacy
Commerce Street
Hinesburg, VT

STORMWATER MANAGEMENT PLAN

Legend

- PROJECT BOUNDARY
- OTHER PROPERTY LINE
- SIDELINE OF EASEMENT
- - - 506 - - - CONTOUR LINE (U.S.G.S. DATUM)
- - - PROPOSED FINISH GRADE CONTOUR
- EDGE OF WOODED AREA
- EXISTING IRON PIPE
- EXISTING CONCRETE MONUMENT
- IRON PIPE (TO BE SET)
- CONCRETE MONUMENT (TO BE SET)
- ⊙ RESIDENTIAL USE
- ⊙ COMMERCIAL USE
- ⊙ UNDEVELOPED
- ETC --- EXISTING ELECTRIC/TV/TELEPHONE LINE
- S --- EXISTING SEWERLINE
- □ --- EXISTING STORMLINE
- W --- EXISTING WATERLINE
- EXISTING/PROPOSED HYDRANT
- AdD --- SOIL TYPE + BOUNDARY
- CONSTRUCTION PHASE LIMIT
- CONSTRUCTION FENCE
- SILT FENCE
- NEW EDGE OF WOODS
- INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY PERIMETER SWALE

(NOTE : PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE)

GENERAL NOTES :

1. THE PURPOSE OF THESE PLANS IS TO :
 - A. MINIMIZE THE AREA OF DISTURBED SOILS AND TO MINIMIZE THE DURATION THAT ANY AREAS ARE LEFT OPEN.
 - B. ISOLATE THE AREAS OF DISTURBANCE TO PREVENT AND CONTROL EROSION CAUSED BY RUN-OFF.
 - C. CONTROL THE AMOUNTS OF SEDIMENT THAT MAY RESULT FROM ANY SITE EROSION.
2. A COPY OF THE CONSTRUCTION GENERAL PERMIT AND A SET OF THE PLANS WILL BE AVAILABLE AT THE JOB TRAILER ON-SITE.
3. TYLER STERLING WILL BE THE ON-SITE COORDINATOR, PHONE #12071 885-3356.
4. THE ON-SITE COORDINATOR SHALL INSPECT AND KEEP A WRITTEN RECORD OF THE EROSION AND SEDIMENT CONTROL STRUCTURES AND MEASURES AT A MINIMUM OF ONCE A WEEK AND ALSO WITHIN 24 HOURS OF ANY STORM EVENT THAT DISCHARGES RUN-OFF FROM THE SITE.
5. THE ON-SITE COORDINATOR SHALL KEEP A WRITTEN RECORD OF EROSION CONTROL INSPECTIONS AND ANY MONITORING DATA FOR A MINIMUM OF THREE (3) YEARS FOLLOWING COMPLETION OF CONSTRUCTION.
6. REFER TO PLAN SHEETS E1 THROUGH E6 FOR ALL EROSION CONTROL PLANS, DETAILS AND SPECIFICATIONS.

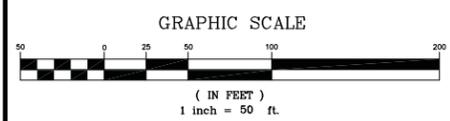
	KW Value	Impacted Area (acres)	Total Area (acres)
Le - Limerick Silt Loam	0.49 - HIGH	0.36	0.36
Lf - Limerick Silt Loam, Very Wet	0.49 - HIGH	1.23	1.25
MyB - Munson and Raynham Silt Loams, 2 to 6 percent sloppes	0.49 - HIGH	1.29	1.58
Wo - Winooski Very Fine Sandy Loam	0.48 - HIGH	1.69	2.00
			5.19



ON-SITE COORDINATOR:
TYLER STERLING
PHONE - (207) 885-3356

INSPECTION SCHEDULE	WEEKLY	AFTER EACH RAINFALL THAT GENERATES STORMWATER FROM SITE
INSPECT SILT FENCING	X	X
INSPECT CONSTRUCTION FENCE	X	X
INSPECT AREAS TEMPORARILY MALCHED	X	X
INSPECT TEMPORARY SOIL STOCKPILE	X	X
INSPECT STABILIZED CONSTRUCTION ENTRANCES	X	X
INSPECT AREAS THAT HAVE BEEN TOPSOILED + MALCHED	X	X
INSPECT STORMWATER PONDS AND SEDIMENT TRAPS	X	X

SHT.	PLAN DESCRIPTION
E1	EPSC PRE-CONSTRUCTION PLAN
E2	EPSC CONSTRUCTION PLAN 'PHASE I'
E3	EPSC CONSTRUCTION PLAN 'PHASE II'
E4	EPSC CONSTRUCTION PLAN 'PHASE III'
E5	EPSC STABILIZATION PLAN
E6	EPSC DETAILS + SPECIFICATIONS



Owner
GIROUX FAMILY TRUST
C/O BERNARD A. JUNE T.
VICTOR T. + ROMONA
9318 ROUTE 116
HINESBURG, VT 05461

Applicant
MARTIN'S FOOD OF
SOUTH BURLINGTON, INC.
C/O TYLER STERLING
PO BOX 1000
PORTLAND, ME 04104



DATE: 3-11-13	ADDED NOTE REGARDING PROTECTION OF EXISTING TREES	BY: BJB
REVISION: 2-12-13	UPDATED ONSITE COORDINATOR	BY: BJB
SURVEY: OBCA	RECORD DRAWING	PRELIMINARY
DESIGN: OBCA	FINAL	SKETCH/CONCEPT
DRAWN: BJB	Hannaford Supermarket & Pharmacy Commerce Street Hinesburg, VT	
CHECKED: FJO	O'LEARY-BURKE CIVIL ASSOCIATES, PLC 1 CORPORATE DRIVE, SUITE #1 ESSEX, VT PHONE: 876-9889 FAX: 876-9889 E-MAIL: obca@olearyburke.com	
SCALE: 1"=50'	DATE: 08-21-12 JOB#: 3066 FILE: 9066-STORM PLAN SHEET #	
	EPSC Pre-Construction Plan	
	E1	

Legend

- PROJECT BOUNDARY
 - OTHER PROPERTY LINE
 - SIDELINE OF EASEMENT
 - - - - - CONTOUR LINE (U.S.G.S. DATUM)
 - - - - - PROPOSED FINISH GRADE CONTOUR
 - ~~~~~ EDGE OF WOODED AREA
 - EXISTING IRON PIPE
 - EXISTING CONCRETE MONUMENT
 - IRON PIPE (TO BE SET)
 - CONCRETE MONUMENT (TO BE SET)
 - ⊙ RESIDENTIAL USE
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 - ⊙ UNDEVELOPED
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 - □ ----- EXISTING STORMLINE
 - W ----- EXISTING WATERLINE
 - ⊙ EXISTING/PROPOSED HYDRANT
 - AdD SOIL TYPE + BOUNDARY
 - CONSTRUCTION PHASE LIMIT
 - CONSTRUCTION FENCE
 - SILT FENCE
 - ~~~~~ NEW EDGE OF WOODS
 - INLET PROTECTION
 - STABILIZED CONSTRUCTION ENTRANCE
 - ←---→ TEMPORARY PERIMETER SWALE
 - STABILIZED WITH EROSION CONTROL BLANKET
 - ▨ STABILIZED WITH MIX 1 SEED AND MULCH
 - GRAVEL/CONCRETE/PAVEMENT
- NOTE: PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE



WINTER GUIDELINES FOR EROSION PREVENTION + SEDIMENT CONTROL

1. ALL DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
2. ALL SILT FENCE OR OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE IN PLACE PRIOR TO GROUND FREEZING.
3. WHEN MULCH IS REQUIRED FOR STABILIZATION DOUBLE THE STANDARD RATE SHALL BE APPLIED.
4. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - A. IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
 - B. DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS HOUSE FOUNDATIONS OR OPEN UTILITY TRENCHES.
5. PRIOR TO STABILIZATION SNOW AND ICE MUST BE REMOVED TO DEPTH OF NO LESS THAN 1 IN.
6. ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED WITHIN 48 HOURS OF BEING BROUGHT TO FINISH GRADE.

CONSTRUCTION SEQUENCING FOR EROSION PREVENTION + SEDIMENT CONTROL

THE ON-SITE COORDINATOR SHALL INSPECT THE SITE AND THE SEDIMENT CONTROL MEASURES A MINIMUM OF ONCE EVERY SEVEN DAYS, PRIOR TO PREDICTED STORM EVENTS AND WITHIN 24 HOURS FOLLOWING ANY PRECIPITATION WITH A VOLUME LARGE ENOUGH TO DISCHARGE RUN-OFF FROM THE SITE. THE WEEKLY REPORT AND EROSION CONTROL PLAN WILL BE KEPT ON-SITE.

PHASE II CONSTRUCTION OF ROADWAYS AND PARKING AREA, INSTALLATION OF UTILITIES, AND SITE GRADING

TIMETABLE	MAJOR CONSTRUCTION ITEM	EROSION CONTROL	MAINTENANCE
SPRING 2014	1. MARK LIMITS OF AREA TO BE DISTURBED.	INSTALL CONSTRUCTION FENCING AT LOCATIONS SHOWN ON PLAN.	MAINTAIN UNTIL CONSTRUCTION WITHIN PHASE I IS COMPLETED.
	2. INSTALL SILT FENCING AND STABILIZED CONSTRUCTION ENTRANCE	INSTALL SILT FENCING AND STABILIZED CONSTRUCTION ENTRANCE AT LOCATIONS SHOWN ON PLAN.	MAINTAIN SILT FENCE AND REMOVE DEPOSITS OF SILT. REMOVE AND REPLACE STONE AT ENTRANCE AS ORDERED BY THE ON-SITE COORDINATOR.
	3. GRUBBING AND TOPSOIL STOCKPILING	ANY STUMPS ARE TO BE DISPOSED OF AT AN APPROVED DISPOSAL SITE. A SILT FENCE IS TO BE INSTALLED AROUND THE BASE OF THE STOCKPILE. THE STOCKPILE IS TO BE SEEDED AND MULCHED WITHIN 48 HOURS OF PLACEMENT.	THE SILT FENCE IS TO BE MAINTAINED UNTIL THE STOCKPILE HAS BEEN REMOVED. IN-USE AREAS OF THE STOCKPILE ARE TO BE RESEEDED AND REMULCHED IF OPEN AND UNUSED FOR MORE THAN A WEEK.
SPRING/SUMMER 2014	4. CONSTRUCTION OF STORM SYSTEM, ROAD/PARKING BASE, INSTALLATION OF UTILITIES AND FINISH SITE GRADING	DISTURBED AREAS ARE TO BE SEEDED AND MULCHED WITHIN 14 DAYS OF DISTURBANCE. AREAS THAT ARE FINISH GRADED ARE TO BE SEEDED AND MULCHED WITHIN 48 HOURS.	ROADWAY SIDESLOPES ARE TO BE INSPECTED WEEKLY OR IMMEDIATELY FOLLOWING A RUN-OFF PRODUCING STORM. REMOVE SEDIMENT AND REPLACE STONE AS NECESSARY.
	5. SEEDING AND MULCHING OF COMPLETED AREAS		
FALL 2015	6. PAVING OF ROADWAY AREA	FINISH GRADING, SEED + MULCHING OF ANY UNFINISHED AREAS	

ON-SITE COORDINATOR:
TYLER STERLING
PHONE - (207) 885-3356

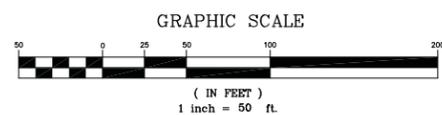
INSPECTION SCHEDULE	WEEKLY	AFTER EACH RAINFALL THAT GENERATES STORMWATER FROM SITE
INSPECT SILT FENCING	X	X
INSPECT CONSTRUCTION FENCE	X	X
INSPECT AREAS TEMPORARILY MULCHED	X	X
INSPECT TEMPORARY SOIL STOCKPILE	X	X
INSPECT STABILIZED CONSTRUCTION ENTRANCES	X	X
INSPECT AREAS THAT HAVE BEEN TOPSOILED + MULCHED	X	X
INSPECT STORMWATER PONDS AND SEDIMENT TRAPS	X	X

Owner

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PO BOX 1000
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DATE: 2-12-13	REVISION: UPDATED ONSITE COORDINATOR	BY: BJB
SURVEY: OBCA	DESIGN: OBCA	DATE: 08-21-12
DRAWN: BJB	CHECKED: FJO	JOB#: 3066
SCALE: 1"=50'	FILE: 0066-STORM	PLAN SHEET #
O'LEARY-BURKE CIVIL ASSOCIATES, PLC 1 CORPORATE DRIVE, SUITE #1 ESSEX, VT PHONE: 878-9889 FAX: 878-9889 E-MAIL: ocb@olearyburke.com		Hannaford Supermarket & Pharmacy Commerce Street Hinesburg, VT EPSC Construction Plan Phase II (Infrastructure)
		E3

Legend

- PROJECT BOUNDARY
 - OTHER PROPERTY LINE
 - SIDELINE OF EASEMENT
 - - - 506 - - - CONTOUR LINE (U.S.G.S. DATUM)
 - - - PROPOSED FINISH GRADE CONTOUR
 - ~~~~~ EDGE OF WOODED AREA
 - EXISTING IRON PIPE
 - EXISTING CONCRETE MONUMENT
 - IRON PIPE (TO BE SET)
 - CONCRETE MONUMENT (TO BE SET)
 - Ⓡ RESIDENTIAL USE
 - Ⓢ COMMERCIAL USE
 - Ⓤ UNDEVELOPED
 - ETC --- EXISTING ELECTRIC/TV/TELEPHONE LINE
 - S --- EXISTING SEWERLINE
 - □ --- EXISTING STORMLINE
 - W --- EXISTING WATERLINE
 - EXISTING/PROPOSED HYDRANT
 - AdD SOIL TYPE + BOUNDARY
 - CONSTRUCTION PHASE LIMIT
 - CONSTRUCTION FENCE
 - SILT FENCE
 - ~~~~~ NEW EDGE OF WOODS
 - INLET PROTECTION
 - STABILIZED CONSTRUCTION ENTRANCE
 - TEMPORARY PERIMETER SWALE
 - STABILIZED WITH EROSION CONTROL BLANKET
 - STABILIZED WITH MIX 1 SEED AND MULCH
 - GRAVEL/CONCRETE/PAVEMENT
- (NOTE : PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE)



WINTER GUIDELINES FOR EROSION PREVENTION + SEDIMENT CONTROL

1. ALL DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
2. ALL SILT FENCE OR OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE IN PLACE PRIOR TO GROUND FREEZING.
3. WHEN MULCH IS REQUIRED FOR STABILIZATION DOUBLE THE STANDARD RATE SHALL BE APPLIED.
4. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - A. IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
 - B. DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS HOUSE FOUNDATIONS OR OPEN UTILITY TRENCHES.
5. PRIOR TO STABILIZATION SNOW AND ICE MUST BE REMOVED TO DEPTH OF NO LESS THAN 1 IN.
6. ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED WITHIN 48 HOURS OF BEING BROUGHT TO FINISH GRADE.

CONSTRUCTION SEQUENCING FOR EROSION PREVENTION + SEDIMENT CONTROL

THE ON-SITE COORDINATOR SHALL INSPECT THE SITE AND THE SEDIMENT CONTROL MEASURES A MINIMUM OF ONCE EVERY SEVEN DAYS, PRIOR TO PREDICTED STORM EVENTS AND WITHIN 24 HOURS FOLLOWING ANY PRECIPITATION WITH A VOLUME LARGE ENOUGH TO DISCHARGE RUN-OFF FROM THE SITE. THE WEEKLY REPORT AND EROSION CONTROL PLAN WILL BE KEPT ON-SITE.

PHASE III CONSTRUCTION OF COMMERCIAL BUILDING, UTILITY CONNECTIONS AND FINISH SITE GRADING

TIMETABLE	MAJOR CONSTRUCTION ITEM	EROSION CONTROL	MAINTENANCE
FALL 2014	1. MARK LIMITS OF AREA TO BE DISTURBED.	INSTALL CONSTRUCTION FENCING AROUND AREAS TO BE EXCAVATED.	MAINTAIN UNTIL CONSTRUCTION IS COMPLETED. (FENCE LOCATIONS WILL BE ADJUSTED AS BUILDING IS FINISHED)
	2. INSTALL SILT FENCING	INSTALL SILT FENCING AROUND AREAS TO BE EXCAVATED.	MAINTAIN SILT FENCE AND REMOVE DEPOSITS OF SILT.
	3. EXCAVATION FOR BUILDING, INSTALLATION OF UTILITIES AND FINISH GRADING.	DISTURBED AREAS ARE TO BE SEEDED AND MULCHED WITHIN 14 DAYS AND ALL SEEDING AND MULCHING SHALL BE COMPLETED BY SEPTEMBER 15. AREAS THAT ARE FINISH GRADED ARE TO BE SEEDED AND MULCHED WITHIN 48 HOURS.	DISTURBED AREAS ARE TO BE MAINTAINED UNTIL GRASS IS ESTABLISHED. (FENCE LOCATIONS TO BE MINIMIZED AS AREAS ARE COMPLETED AND GRASS IS ESTABLISHED)

ON-SITE COORDINATOR:
TYLER STERLING
PHONE - (207) 885-3356

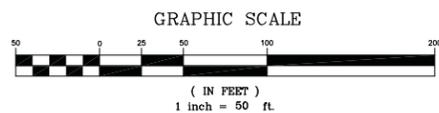
INSPECTION SCHEDULE	WEEKLY	AFTER EACH RAINFALL THAT GENERATES STORMWATER FROM SITE
INSPECT SILT FENCING	X	X
INSPECT CONSTRUCTION FENCE	X	X
INSPECT AREAS TEMPORARILY MULCHED	X	X
INSPECT TEMPORARY SOIL STOCKPILE	X	X
INSPECT STABILIZED CONSTRUCTION ENTRANCES	X	X
INSPECT AREAS THAT HAVE BEEN TOPSOILED + MULCHED	X	X
INSPECT STORMWATER PONDS AND SEDIMENT TRAPS	X	X

Owner

GIROUX FAMILY TRUST
C/O BERNARD A. JUNE T.,
VICTOR T. + ROMONA
9318 ROUTE 116
HINESBURG, VT 05461

Applicant

MARTIN'S FOOD OF
SOUTH BURLINGTON, INC.
C/O TYLER STERLING
PO BOX 1000
PORTLAND, ME 04104



DATE: 3-11-13	REVISION: ADDED NOTE REGARDING PROTECTION OF EXISTING TREES	BY: BJB
DATE: 2-12-13	REVISION: UPDATED ONSITE COORDINATOR	BY: BJB
SURVEY: OBCA	DESIGN: OBCA	DATE: 08-21-12
DESIGN: OBCA	DRAWN: BJB	JOB#: 3066
CHECKED: FJO	SCALE: 1"=50'	FILE: 9066-STORM
O'LEARY-BURKE CIVIL ASSOCIATES, PLC 1 CORPORATE DRIVE, SUITE #1 ESSEX, VT PHONE: 876-9889 FAX: 876-9889 E-MAIL: obc@olearyburke.com		Hannaford Supermarket & Pharmacy Commerce Street Hinesburg, VT EPSC Construction Plan Phase III (Building) PLAN SHEET # E4

Legend

- PROJECT BOUNDARY
 - OTHER PROPERTY LINE
 - SIDELINE OF EASEMENT
 - 506----- CONTOUR LINE (U.S.G.S. DATUM)
 - PROPOSED FINISH GRADE CONTOUR
 - ~~~~~ EDGE OF WOODED AREA
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 - Ⓡ RESIDENTIAL USE
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 - □ ----- EXISTING STORMLINE
 - W ----- EXISTING WATERLINE
 - ⚡ EXISTING/PROPOSED HYDRANT
 - AdD SOIL TYPE + BOUNDARY
 - x--- CONSTRUCTION PHASE LIMIT
 - x--- CONSTRUCTION FENCE
 - x--- SILT FENCE
 - ~~~~~ NEW EDGE OF WOODS
 - INLET PROTECTION
 - STABILIZED CONSTRUCTION ENTRANCE
 - ←---→ TEMPORARY PERIMETER SWALE
 - STABILIZED WITH EROSION CONTROL BLANKET
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 - GRAVEL/CONCRETE/PAVEMENT
- NOTE : PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE !



ON-SITE COORDINATOR:
TYLER STERLING
PHONE - (207) 885-3356

INSPECTION SCHEDULE	WEEKLY	AFTER EACH RAINFALL THAT GENERATES STORMWATER FROM SITE
INSPECT SILT FENCING	X	X
INSPECT CONSTRUCTION FENCE	X	X
INSPECT AREAS TEMPORARILY MULCHED	X	X
INSPECT TEMPORARY SOIL STOCKPILE	X	X
INSPECT STABILIZED CONSTRUCTION ENTRANCES	X	X
INSPECT AREAS THAT HAVE BEEN TOPSOILED + MULCHED	X	X
INSPECT STORMWATER PONDS AND SEDIMENT TRAPS	X	X

STABILIZATION PLAN

THE PURPOSE OF THE EROSION AND SEDIMENT STABILIZATION PLAN IS TO COMPLY WITH STATE + FEDERAL REGULATIONS DEALING WITH THE CONTROL OF NONPOINT SOURCE (NPS) POLLUTION. THE PLAN CONTAINS A SERIES OF BEST MANAGEMENT PRACTICES (BMPs) DESIGNED TO MINIMIZE POLLUTION RESULTING OF STORMWATER RUNOFF AND OFF-SITE SEDIMENT DEPOSITION DURING LAND DISTURBANCE ACTIVITIES.

TO MINIMIZE THE POTENTIAL FOR EROSION CONSTRUCTION HAS BEEN BROKEN DOWN INTO FOUR PHASES. THE PROPOSED PLAN SEEKS TO MINIMIZE THE AREA DISTURBED AT ANY ONE TIME AND LIMIT THE AMOUNT OF TIME THE DISTURBED PORTIONS REMAIN EXPOSED BY REQUIRING FREQUENT (WEEKLY) TEMPORARY SEEDING AND/OR MULCHING AND BY REQUIRING THAT SURFACES BROUGHT TO FINISH GRADE BE TOPSOILED AND SEEDED WITHIN 48 HOURS.

AN URBAN TYPE GRASS MIXTURE SHALL BE USED FOR ALL PERMANENT SEEDING + MULCHING CONSISTING OF 38% KENTUCKY BLUEGRASS, 38% CREEPING RED FESCUE, AND 24% ANNUAL RYEGRASS. FOR WINTER CONSTRUCTION THE GRASS MIXTURE SHALL BE PLACED AT A RATE OF 240# PER ACRE.

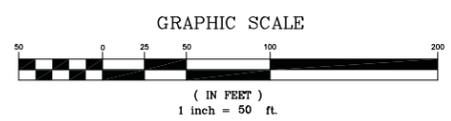
FERTILIZER SHALL BE PLACED AT A RATE OF 1 TO 2 TONS PER ACRE, WHERE SPECIFIED, AN EROSION CONTROL BLANKET SHALL BE PLACED. THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S RECOMMENDATION FOR PROPER OVERLAP AND FASTENER PLACEMENT. IN ADDITION THE CONTRACTOR SHALL REPLACE ANY MULCH LOST TO WINDTHROW ON A WEEKLY BASIS.

ALL NON-IMPERVIOUS SURFACES SHALL BE TOPSOILED, SEEDED AND MULCHED WITHIN 48 HOURS OF ESTABLISHING FINISH GRADE. THE CONTRACTOR SHALL INSPECT ALL SILT FENCING, STONE CHECK DAMS, STABILIZED CONSTRUCTION ENTRANCE AND STORM POND DETENTION AREAS ON A DAILY BASIS AND IMMEDIATELY FOLLOWING ANY RAINSTORM EVENT THAT GENERATES STORMWATER LEAVING THE SITE.

CONSTRUCTION ON THE NEXT SUBSEQUENT PHASE SHALL NOT OCCUR UNTIL ALL STORMWATER AND EROSION CONTROL DEVICES FROM THE PREVIOUS PHASE HAVE BEEN PUT IN PLACE.

WINTER GUIDELINES FOR EROSION PREVENTION + SEDIMENT CONTROL

1. ALL DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
2. ALL SILT FENCE OR OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE IN PLACE PRIOR TO GROUND FREEZING.
3. WHEN MULCH IS REQUIRED FOR STABILIZATION DOUBLE THE STANDARD RATE SHALL BE APPLIED.
4. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - A. IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
 - B. DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS HOUSE FOUNDATIONS OR OPEN UTILITY TRENCHES.
5. PRIOR TO STABILIZATION SNOW AND ICE MUST BE REMOVED TO DEPTH OF NO LESS THAN 1 IN.
6. ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED WITHIN 48 HOURS OF BEING BROUGHT TO FINISH GRADE.



DATE: 3-11-13	REVISION: ADDED NOTE REGARDING PROTECTION OF EXISTING TREES	BY: BJB
SURVEY: OBCA	REVISION: UPDATED ONSITE COORDINATOR	DATE: 08-21-12
DESIGN: OBCA	REVISION: RECORD DRAWING	JOB#: 3066
DRAWN: BJB	REVISION: SKETCH/CONCEPT	FILE: 9066-STORM
CHECKED: FJO	O'LEARY-BURKE CIVIL ASSOCIATES, PLC	PLAN SHEET #
SCALE: 1"=50'	1 CORPORATE DRIVE, SUITE #1 ESSEX, VT, VT PHONE: 876-9889 FAX: 876-9889 E-MAIL: ocb@olearyburke.com	E5

Owner
GIROUX FAMILY TRUST
C/O BERNARD A. JUNE T.,
VICTOR T. + ROMONA
9318 ROUTE 116
HINESBURG, VT 05461

Applicant
MARTIN'S FOOD OF
SOUTH BURLINGTON, INC.
C/O TYLER STERLING
PO BOX 1000
PORTLAND, ME 04104

Hannaford Supermarket & Pharmacy
Commerces Street Hinesburg, VT
EPSC Stabilization Plan

SNOW MANAGEMENT PLAN :

FOLLOWING THE ACCUMULATION OF ANY SNOW FALL EVENT WHICH GENERATES MORE THAN 1" OF SNOW OR ICE THE SITE SHALL BE CLEARED AND ALL SNOW AND ICE STORED IN THE IDENTIFIED SNOW STORAGE AREAS ON THE EPSC CONSTRUCTION PLANS. ALL SNOW STORAGE AREAS SHALL BE DOWN GRADIENT OF ANY DISTURBED AREAS AND THE STORAGE OF SNOW IN STORMWATER TREATMENT STRUCTURES IS PROHIBITED.

MULCHING SPECIFICATIONS

DISTURBED AREAS ARE TO BE MULCHED WITHIN 14 DAYS OF DISTURBANCE. HAY MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA AT A RATE OF TWO TONS PER ACRE OR AT A RATE THAT IS SUFFICIENT TO PROVIDE ADEQUATE COVERAGE.

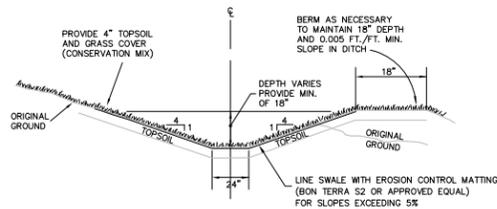
WHERE FINISH GRADE AND TOPSOILED, SEEDING AND MULCHING IS TO BE APPLIED WITHIN 48 HOURS.

LANDSCAPING SPECIFICATIONS

FINISHED AREAS ARE TO BE SEEDED AND MULCHED WITHIN 48 HOURS OF TOPSOILING. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL AND BE SEEDED, FERTILIZED, LIMED, AND MULCHED IN ACCORDANCE WITH THE FOLLOWING:

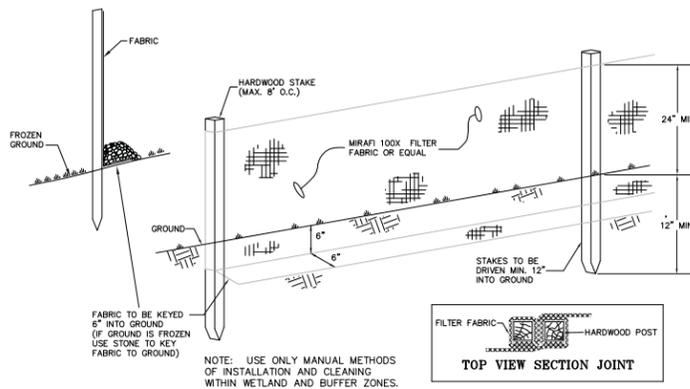
- SEED MIXTURE IN ALL AREAS SHALL BE URBAN MIX CONFORMING TO THE TABLE SHOWN ON THE PLANS.
- FERTILIZER SHALL BE STANDARD COMMERCIAL GRADE CONFORMING TO THE STATE FERTILIZER LAW AND TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. DRY FERTILIZER, IF USED, SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. LIQUID FERTILIZER, IF USED, SHALL BE APPLIED IN A 1-2-1 RATIO WITH THE MINIMUM RATE TO INCLUDE 100 POUNDS OF NITROGEN, 200 POUNDS OF PHOSPHATE, AND 100 POUNDS OF POTASH PER ACRE.
- LIMESTONE SHALL CONFORM TO ALL STATE AND FEDERAL REGULATIONS AND TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. THE LIMESTONE SHALL BE APPLIED AT A RATE OF TWO TONS PER ACRE OR AS DIRECTED.
- WITHIN 24 HOURS OF APPLICATION OF FERTILIZER, LIME AND SEED, THE SURFACE SHALL BE MULCHED WITH A HAY MULCH. MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA AT A RATE OF TWO TONS PER ACRE OR AT A RATE THAT IS SUFFICIENT TO ENSURE ADEQUATE COVERAGE.

MIX #1: CREEPING RED FESCUE + PERENNIAL RYEGRASS		
% BY WEIGHT	lbs. LIVE SEED PER ACRE	TYPE OF SEED
50	10	ENSYLVA. PENNLAWN BOREAL
50	10	PENNFINE, LINN
100	20 # LIVE SEED PER ACRE	



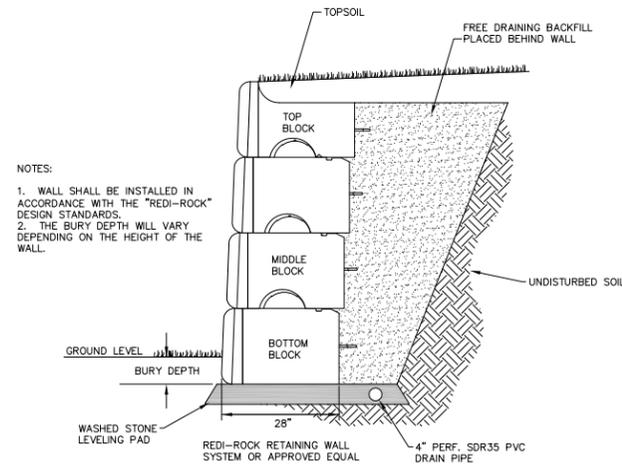
GRASS DRAINAGE SWALE

NTS



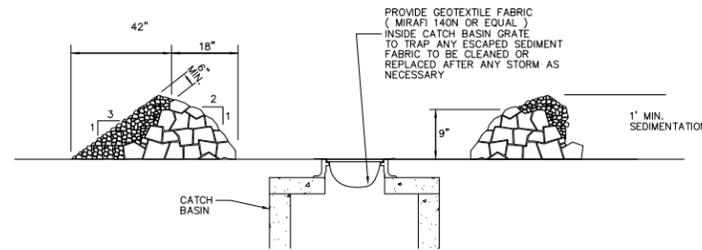
SILT FENCE

NTS

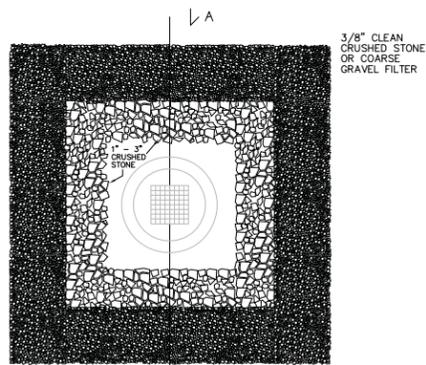


TEMPORARY RETAINING WALL DETAIL

NTS

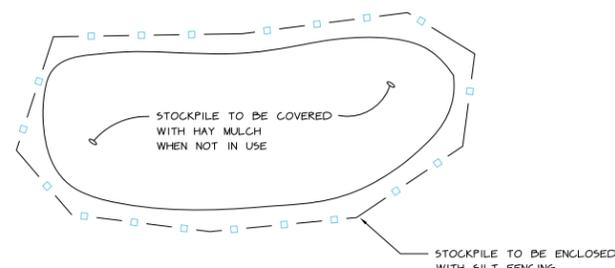


SECTION A - A



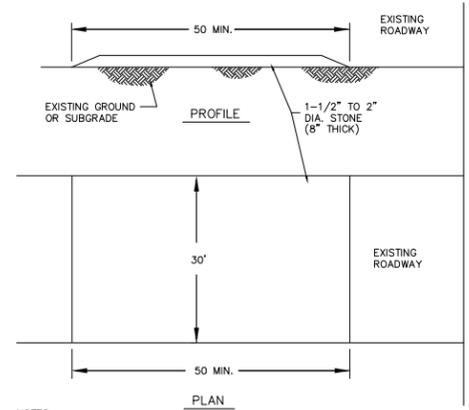
INLET PROTECTION DETAIL

NTS



TEMPORARY FILL MATERIAL STOCKPILE

NTS

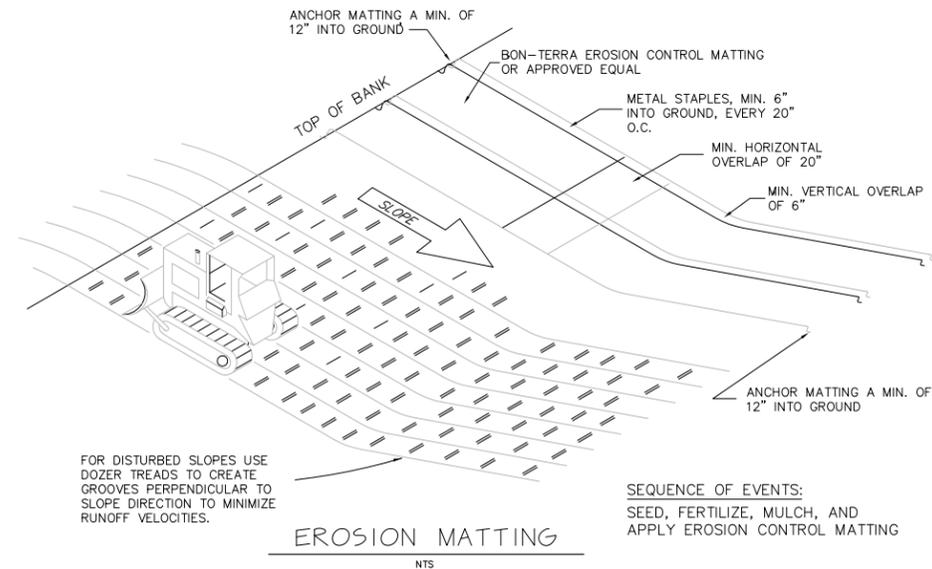


NTS

- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT TRACKED, SPILLED, OR WASHED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY BY CONTRACTOR.
 - THE USE OF CALCIUM CHLORIDE OR WATER MAY BE NECESSARY TO CONTROL DUST DURING THE SUMMER.
 - PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY.

STABILIZED CONSTRUCTION ENTRANCE

NTS



FOR DISTURBED SLOPES USE DOZER TREADS TO CREATE GROOVES PERPENDICULAR TO SLOPE DIRECTION TO MINIMIZE RUNOFF VELOCITIES.

SEQUENCE OF EVENTS:
SEED, FERTILIZE, MULCH, AND APPLY EROSION CONTROL MATTING

EROSION MATTING

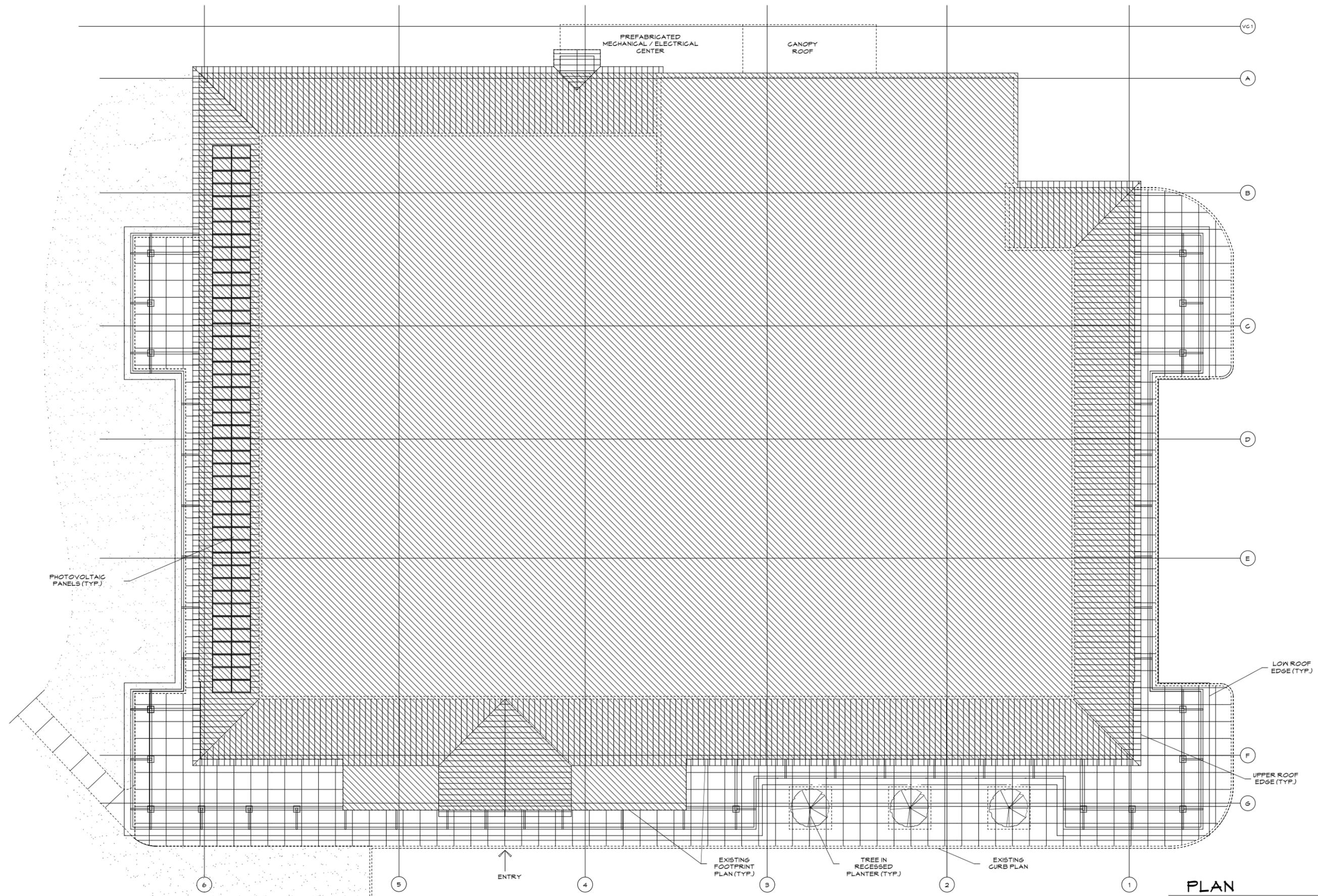
NTS

DATE	3-11-13	ADDED NOTE REGARDING PROTECTION OF EXISTING TREES	BY	BJB
REVISION	2-12-13	UPDATED ONSITE COORDINATOR	BY	BJB
SURVEY	OBCA	<input type="checkbox"/> RECORD DRAWING <input type="checkbox"/> PRELIMINARY	DATE	08-21-12
DESIGN	OBCA	<input checked="" type="checkbox"/> FINAL <input type="checkbox"/> SKETCH/CONCEPT	JOB#	3066
DRAWN	BJB	O'LEARY-BURKE CIVIL ASSOCIATES, PLC	FILE	9066 STORM
CHECKED	FJO	1 CORPORATE DRIVE, SUITE #1 ESSEX, VT PHONE: 876-9889 FAX: 876-9889 E-MAIL: ocbca@olearyburke.com	PLAN SHEET #	E6
SCALE	1"=30'	Hannaford Supermarket & Pharmacy Commerce Street Hinesburg, VT		
		EPSC Details & Specifications		

BAST & ROOD ARCHITECTS
187 WINDROW LANE
PO BOX 220
HINESBURG, VT 05461
TEL: 802-482-5200
FAX: 802-482-3489
EMAIL: bastrood@gmail.com

MUNICIPAL REVIEW
SET,
NOT FOR
CONSTRUCTION

PROPOSED REVISIONS
HANNAFORD SUPERMARKET
COMMERCE STREET
HINESBURG, VERMONT 05461



PLAN
SCALE: 1" = 10'

DRAWING TITLE

Building
Plan View

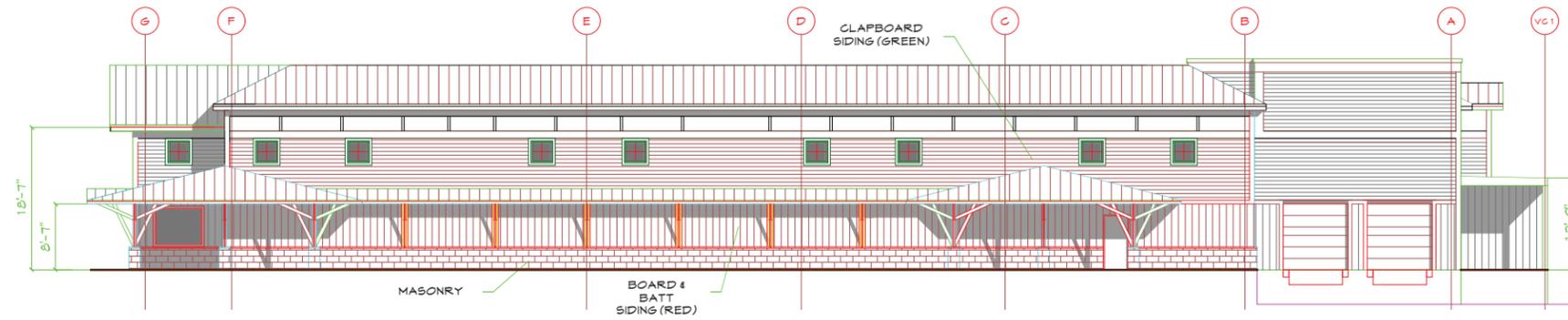
SCALE

DATE
April 26, 2012

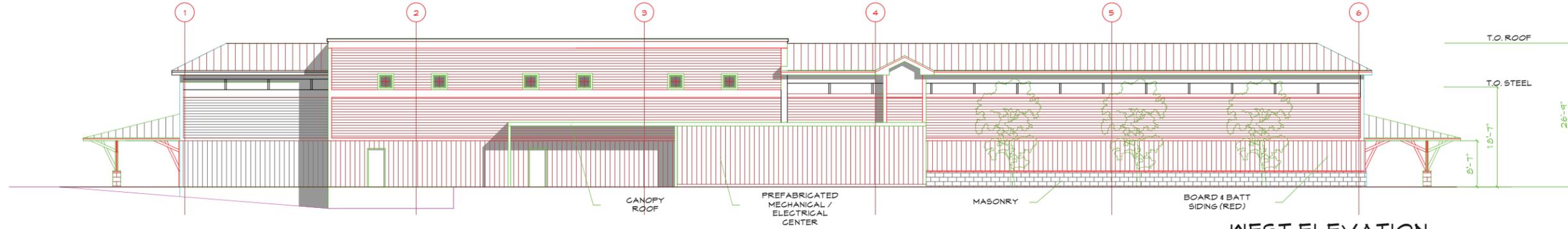
DRAWING NUMBER

A-1

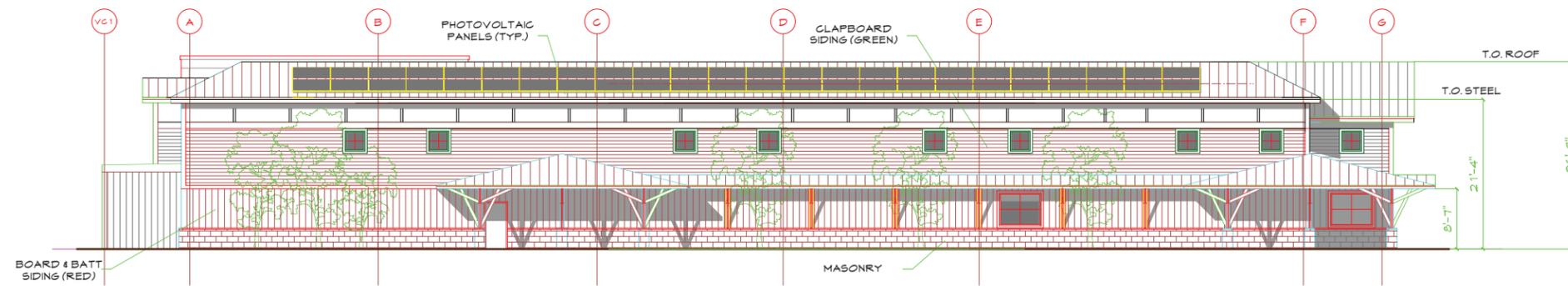
MUNICIPAL REVIEW
 NOT FOR
 CONSTRUCTION



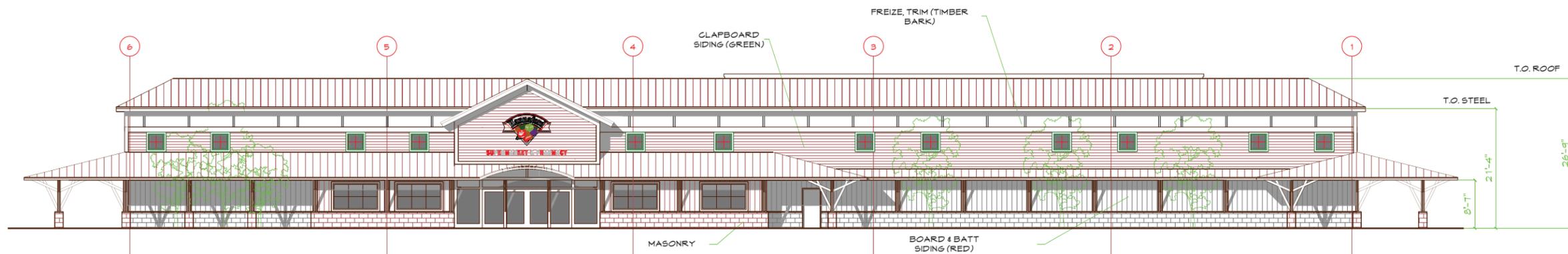
NORTH ELEVATION
 SCALE: 1" = 10'



WEST ELEVATION
 SCALE: 1" = 10'



SOUTH ELEVATION
 SCALE: 1" = 10'



EAST ELEVATION
 SCALE: 1" = 10'

PROPOSED REVISIONS
HANNAFORD SUPERMARKET
 COMMERCE STREET
 HINESBURG, VERMONT 05461

DRAWING TITLE

SCALE

DATE
 5.24.12

DRAWING NUMBER

A-2

*Stormwater Calculations
For*

Lot #15

*Giroux Commercial Park
Commerce Street*

Hinesburg, Vermont

February 2013

O'LEARY-BURKE CIVIL ASSOCIATES, PLC

*1 Corporate Drive, Suite 1
Essex Junction, Vermont 05452
(802) 878-9990*

Stormwater Discharge General Permit (3-9015) Application

Table of Contents

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1. Narrative

2. Attachments

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3. Project Plan Index

<u>Plan</u>	<u>Sheet</u>	<u>Last Revised</u>
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Stormwater Management Plan	SH S3	08-21-12



O'Leary-Burke Civil Associates, PLC

CIVIL ENGINEERING | REGULATORY AND PERMIT PREPARATION | LAND SURVEYING | CONSTRUCTION SERVICES | LAND USE PLANNING

February 12, 2013

Kevin Burke
Vermont Department of Env. Cons.
Water Quality Division
103 South Main Street
Building 10 North
Waterbury, VT 05671-0408

Re: Stormwater Discharge Permit - General Permit Application
Lot 15 - Giroux Commercial Park, Hinesburg, VT

Dear Kevin:

We are writing on behalf of Martin's Foods of South Burlington, Inc., c/o Tyler Sterling, to apply for a General Stormwater Discharge Permit for the above referenced project. The current proposal is for a 36,000 square foot Hannaford Supermarket and Pharmacy located on lot 15 within the Giroux Commercial Park. The Giroux Commercial Park, aka Commerce Park, is an approved 15-lot commercial subdivision off of VT Route 116 in the Town of Hinesburg.

Lot 15 in the Giroux Commercial Park is currently undeveloped and bound by commercial properties and Commerce Street to the north, commercial properties to the east, Mechanicsville Road to the south, and commercial properties to the west. Stormwater runoff from the site currently flows to a drainage swale which flows to an approved detention area approved under storm water discharge permit No. 1-0501.

Despite being originally being covered under the stormwater permit issued for the entire Giroux Commercial Park we are now seeking coverage for Lot 15 under its own General (3-9015) Permit and have designed the site to meet the current stormwater treatment and storage requirements as outlined the Vermont Stormwater Management Manual, Volume 1-Stormwater Treatment Standards (April 2002), Vermont Agency of Natural Resources. The stormwater goal of the proposed system is to utilize new underground stormwater storage vaults to provide detention during the 1 year and 10 year storm events and a combination of new and existing drainage swales to provide treatment and recharge for the smaller 0.9 inch Water Quality Storm event.

The following report has been prepared by O'Leary-Burke Civil Associates to provide a brief description of the existing and proposed drainage areas, design methodology, soil characteristics, and a summary of pre- and post-development peak discharge rates for the project area.

1. Permit Coverage Requirements

Discharge Permit No. 1-0501 was issued for the Giroux Commercial Park on May 7, 1987 authorizing stormwater runoff from paved roads, paved and unpaved parking, roofs, and natural terrain after treatment by overland flow across vegetated terrain, in grass-lined swales, and in detention ponds. As identified on Sheets 2, 3, and 6 of the approved plans, dated 2-17-87, the subdivision was designed with three separate discharge points (S/N 001, S/N 002 and S/N 003), each consisting of a detention pond with a stone-lined outlet where discharge then travels via overland flow across vegetated terrain prior to discharging into Patrick Brook. The stormwater system was designed and permitted for

1 CORPORATE DRIVE SUITE #1 ESSEX JUNCTION VERMONT 05452

TEL 802 878 9990 | FAX 802 878 9989 | obca@olearyburke.com

full build out of the commercial park assuming a total impervious coverage of 73% or 19.35-acres.

State of Vermont stormwater regulations were updated in 2002, and the Giroux Commercial Park's stormwater permit was renewed under General Permit 3-9010. At that time twelve (12) of the fifteen (15) commercial lots had been developed and the undeveloped lots were allocated impervious coverage; Lot 15 received an allocation of 1.0-acres of impervious coverage.

In December, 2011 the Giroux Commercial Park General (3034-9010.R) Permit was again renewed but this time did not include Lot 15. Lot 15 was excluded during the permit renewal because the currently proposed Hannaford Supermarket and Pharmacy exceeded the 1.0-acre of allocated impervious coverage. We are now seeking coverage for Lot 15 under its own General (3-9015) Permit and have designed the site to meet the current stormwater treatment and storage requirements not in place when the subdivision was first proposed.

2. Detailed Project Description

Martin's Foods of South Burlington, Inc. has an option to buy Lot 15, a 4.86-acre parcel in Giroux Commercial Park. Also proposed is a boundary line adjustment with the adjacent Giroux lots to the west, and the addition of the Commerce Street Extension right-of-way to the north. With the addition of these adjacent parcels the proposed project site area will be approximately 5.18-acres. The 5.18-acre site is located along the southern side of Commerce Street, between VT Route 116 and Mechanicsville Road in the Town of Hinesburg, Vermont (see Appendix A3, Figure 1: Site Location Map (USGS) and Appendix A4, Figure 2: (Site Location Map (Aerial))). The site is bounded by Dark Star Lighting, the National Bank of Middlebury and Commerce Street to the north, a medical building and post office to the east, Mechanicsville Road to the south and a salvage yard and auto repair business to the west. The site contains approximately 1.74-acres of class III wetlands which will require the project to also receive approval from the Army Corps of Engineers. Access to the new Hannaford store will be via Commerce Street Extension, which was built to serve the National Bank of Middlebury; the impervious area associated with Commerce Street Extension has been previously covered under State ANR stormwater discharge permit 3034-9010.R. Despite the fact that the boundary line adjustment will make Commerce Street Extension part of Lot 15 we have not included this existing impervious area from our current application because the area has been previously built and permitted under State ANR Discharge Permit 3034-9010.R.

Under existing conditions runoff from the undeveloped Lot 15 sheets flows across the parcel flowing east to west and south to north. Lot 15 also receives some offsite runoff from Lots 13: National Bank of Middlebury and 14: medical office to the east and the adjacent Giroux lots to the west. A drainage swale located within a 30' drainage easement between Lots 10: shopping center and 11: Dark Star Lighting then conveys stormwater to a 15" Corrugated culvert pipe under Commerce Street and to a detention and treatment area, located between Lots 1: Mobil Station and 2: Tailhook Towing. The existing detention area was originally permitted under Discharge Permit No. 1-0501 and identified as "Drainage Structure A" for drainage area S/N 001 on the approved plans.

The current proposal is for an approximately 36,000 sq. ft. Hannaford Supermarket and Pharmacy and associated infrastructure. Of the 5.18-acre project site approximately 2.69-acres will be new impervious associated with the Hannaford proposal. There is approximately 0.19-acres of exiting coverage associated with a portion of Commerce Street Extension which was built to provide access to the National Bank of Middlebury.

This impervious area has been previously covered under State ANR Discharge Permit 3034-9010.R. The remaining surface will be either left natural or covered with landscape plantings, mulch, sod, or other pervious materials.

3. Receiving Water

Currently, runoff from the site flows via a grassed drainage ditch located within a 30' drainage easement to the stormwater collection and treatment area designed for drainage area S/N 001 of the Giroux Commercial Park. It discharges into Patrick Brook, a non-impaired waterway (see Appendix A3, Figure 1: Site Location Map (USGS)).

4. Existing Conditions

The study area for the development is located within the Patrick Brook watershed (see Appendix A5, Figure 3: Existing Conditions Drainage Areas Map). The project site consists of a 4.56-acre parcel, referred to as Lot 15, a 0.30-acre Right-of-Way known as Commerce Street Extension, and a 0.32-acre parcel to be acquired from the adjacent Giroux lot, these three parcels equates to a combined parcel area of 5.18-acres. The existing drainage area is approximately 11.01 acres in size and slopes gently from east to west and south to north with elevation ranging from 346 feet to the southeast corner of the site to 336 feet at the northwestern corner of the site. A drainage swale, located within a 30' drainage easement between Lots 10: shopping center and 11: Dark Star Lighting has been designed to transport stormwater runoff from the existing drainage area to an approved detention area before discharging into the non-impaired water of Patrick Brook identified as S/N 001 on the plans approved under stormwater discharge permit No. 1-0501 and subsequent amendment permit No. 3034-9010.R.

During construction of the National Bank of Middlebury approximately 190' of Commerce Street Extension was built to provide access to the parcel. This area results in approximately 0.19-acres of impervious coverage which has been permitted under discharge permit 3034-9010.R. Lot 15 is currently undeveloped but portions of Lot 13 and 14 to the east and the Giroux lots to the west also contribute to the drainage area. They are developed with ground cover consisting of impervious roofs, parking areas, driveways, and landscaped areas. Runoff from the site is collected by two existing drainage ditches which converge in the northwest corner of Lot 15. A drainage swale, located within a 30' drainage easement between Lots 10 and 11 then conveys stormwater to a 15" Corrugated culvert pipe under Commerce Street and to a detention/treatment facility, located between Lots 2 and 3 before eventually discharging into the non-impaired waters of Patrick Brook.

Table 1, Study area and its characteristics

<i>Discharge Pt.</i>	<i>Sub Area (s)</i>	<i>Area (Acres)</i>	<i>Tc (Min.)</i>	<i>CN</i>
S/N 001	A - Lot 15 west	1.15	6	60
	B - Lot 15 east	2.40	6	72
	C - Lot 11 east, Lot 12	1.70	10.3	74
	D - Lot 13 south, Lot 14	2.32	17.8	76
	E - Giroux lots east	1.12	11.3	80
	F - Lot 10 east, Lot 11 west	1.11	6	80
	G - Commerce Street south	0.31	6	75
	H - Lot 2 east, Lot 3 west	0.90	7.7	82
Total		11.01	n/a	74*

*A minimum Tc value of 6.0 minutes was used in the Hydrologic Calculations

**Weighted CN Value

The study area is comprised of four soil types as defined by the Soil Conservation Service (SCS), Soils Survey of Chittenden County, Vermont. Table 2, Soil Type, lists the designation, name and group of the soil type located within the study area. A copy of the soil mapping and soil types found within the study area is included in Appendix A6.

Table 2, Soil Type

<i>Soil Designation</i>	<i>Soil Name</i>	<i>Soil Group</i>
Le	Limerick Silt Loam	C
Lf	Limerick Silt Loam, very wet	C
MyB	Munson and Rayham Silt Loam, 2 to 6 percent slopes	D
Wb	Winooski very fine Sandy Loam	B

Source: Web Soil Survey Website September 2012, <http://websoilsurvey.nrcs.usda.gov/app>

5. Existing Stormwater System

During construction of the National Bank of Middlebury approximately 190' of Commerce Street Extension was built to provide access to the parcel. This area results in approximately 0.19-acres of existing impervious coverage which has been permitted under discharge permit 3034-9010.R.

Lot 15 is currently undeveloped. Runoff from the site, and some upland contributing areas, is collected by two existing drainage ditches which converge in the northwest corner of the site. A drainage swale, located within a 30' drainage easement between Lots 10 and 11 then conveys stormwater to a 15" corrugated culvert pipe under Commerce Street and to a detention/treatment facility, located between Lots 2 and 3 before ultimately discharging into the non-impaired waters of Patrick Brook.

The following describes the existing stormwater flow patterns for the drainage area and each of the sub areas/points of interest.

Point of Interest 'A' is comprised of the northwestern, undeveloped portion of Lot 15. This sub area flows via sheet and shallow concentrated flow to an existing drainage swale between Lots 10 and 11 which ultimately discharges into the existing Giroux Commercial Park drainage system.

Point of Interest 'B' is comprised of the eastern, undeveloped portion of Lot 15. This sub area flows via sheet and shallow concentrated flow to an existing drainage swale between Lots 12 and 15 which ultimately discharges into the existing Giroux Commercial Park drainage system.

Point of Interest 'C' is comprised of the eastern portion of the existing Dark Star Lighting building on Lot 11 and the existing parking area on portions of Lot 11 and Lot 12. This point of interest also includes the existing portion of Commerce Street Extension built to serve the bank. This sub area flows via sheet and shallow concentrated flow to an existing drainage swale between Lots 12 and 15 which ultimately discharges into the existing Giroux Commercial Park drainage system.

Point of Interest 'D' is comprised of the southern of portion of the National Bank of Middlebury building and parking area on Lot 13, the medical office building and parking area on Lot 14, and the post office building and parking area on Lot 14. This sub area flows via sheet and shallow concentrated flow to an existing drainage swale between Lots

12 and 15 which ultimately discharges into the existing Giroux Commercial Park drainage system.

Point of Interest 'E' is comprised of the eastern portion of the Giroux salvage yard and auto repair shop properties. This sub area flows via sheet and shallow concentrated flow to an existing drainage swale located along the western property line of Lot #15 which ultimately discharges into the existing Giroux Commercial Park drainage system.

Point of Interest 'F' is comprised of the eastern portion of adjacent shopping plaza building and parking area and the western portion of the Dark Star Lighting building. This sub area flows via sheet and shallow concentrated flow to an existing drainage swale between Lots 10 and 11 which ultimately discharges into the existing Giroux Commercial Park drainage system.

Point of Interest 'G' is comprised of the southern portion of Commerce Street between the eastern entrance to the shopping plaza and Commerce Street Extension. This sub area flows via sheet and shallow concentrate flow to an existing roadside ditch which ultimately discharges into the existing Giroux Commercial Park drainage system.

Point of Interest 'H' is comprised of the eastern portion of the Mobile station and the western portion of Tailhook Towing. This sub area flow via sheet and shallow concentrate flow directly into the existing Giroux Commercial Park drainage system.

6. Proposed Stormwater System

The proposed development of Lot 15 includes the construction of 36,000 square foot Hannaford Supermarket and Pharmacy. The proposed improvements also include associated parking facilities, landscaping, stormwater system, and farmers' market area (see Appendix A9, Figure 4: Proposed Conditions Drainage Areas Maps).

The proposed conditions sub areas are comprised of the same 11.01 acre study area represented in the existing conditions drainage analysis.

Table 4, Proposed Conditions: Drainage Area Characteristics Summary

<i>Discharge Pt.</i>	<i>Sub Area (s)</i>	<i>Area (Acres)</i>	<i>Imp. (Acres)</i>	<i>Tc (Min.)</i>	<i>CN</i>
S/N 001	A - Lot 15 west	1.15	0.85	6	88
	B - Lot 15 east	2.40	1.84	6	93
	C - Lot 11 east, Lot 12	1.70	0.67	10.3	74
	D - Lot 13 south, Lot 14	2.32	0.79	17.8	76
	E - Giroux lots east	1.12	0.27	11.3	80
	F - Lot 10 east, Lot 11 west	1.11	0.61	6	80
	G - Commerce Street south	0.31	0.13	6	75
	H - Lot 2 east, Lot 3 west	0.90	0.53	7.7	82
Total		11.01	5.69	n/a	82*

*A minimum Tc value of 6.0 minutes was used in the Hydrologic Calculations

**Weighted CN Value

The following describes the proposed stormwater flow patterns for the drainage area and each of the sub areas/points of interest.

Point of Interest 'A' is comprised of the northwestern corner of the proposed Hannaford building and associated parking area on Lot 15. This sub area flows via sheet flow to a proposed network of catch basins which link to an underground storage system.

A diversion structure releases the smaller storm events into the existing drainage swale between Lots 12 and 15 and the larger storm events are piped to an existing drainage swale between Lots 2 and 3.

Point of Interest 'B' is comprised of the eastern portion of the proposed Hannaford building and associated parking area on Lot 15. This sub area flows via sheet flow to a proposed network of catch basins which link to an underground storage system. A diversion structure releases the smaller storm events into the existing drainage swale between Lots 12 and 15 and the larger storm events are piped to an existing drainage swale between Lots 2 and 3.

Point of Interest 'C' is comprised of the eastern portion of the existing Dark Star Lighting building on Lot 11 and the existing parking area on portions of Lot 11 and Lot 12. This point of interest also includes the existing portion of Commerce Street Extension built to serve the bank. This sub area flows via sheet and shallow concentrated flow to an existing drainage swale between Lots 12 and 15 which ultimately discharges into the existing Giroux Commercial Park drainage system. This area does not change from the existing conditions.

Point of Interest 'D' is comprised of the southern portion of the National Bank of Middlebury building and parking area on Lot 13, the medical office building and parking area on Lot 14, and the post office building and parking area on Lot 14. This sub area flows via sheet and shallow concentrated flow to an existing drainage swale between Lots 12 and 15 which ultimately discharges into the existing Giroux Commercial Park drainage system. This area does not change from the existing conditions.

Point of Interest 'E' is comprised of the eastern portion of the Giroux salvage yard and auto repair shop. This sub area flows via sheet and shallow concentrated flow to an existing drainage swale located along the western property line of Lot 15 which ultimately discharges into the existing Giroux Commercial Park drainage system.

Point of Interest 'F' is comprised of the eastern portion of adjacent shopping plaza building and parking area and the western portion of the Dark Star Lighting building. This sub area flows via sheet and shallow concentrated flow to an existing drainage swale between Lots 10 and 11 which ultimately discharges into the existing Giroux Commercial Park drainage system. This area does not change from the existing conditions.

Point of Interest 'G' is comprised of the southern portion of Commerce Street between the eastern entrance to the shopping plaza and Commerce Street Extension. This sub area flows via sheet and shallow concentrate flow to an existing roadside ditch which ultimately discharges into the existing Giroux Commercial Park drainage system. This area includes construction of approximately 165 feet of new 5 foot wide concrete sidewalk.

Point of Interest 'H' is comprised of the eastern portion of the Mobile station and the western portion of Tailhook Towing. This sub area flow via sheet and shallow concentrate flow directly into the existing Giroux Commercial Park drainage system. This area does not change from the existing conditions.

The proposed development of Lot 15 will increase the impervious area by approximately 2.69-acres, bringing the site total to 2.88-acres of impervious coverage; the remaining surface areas will be covered with landscape plantings, mulch, sod, or other pervious materials. As a result of the increase in coverage, the overall peak stormwater runoff rates will increase from pre- to post-development conditions. We have designed the Hannaford system to meet or exceed current state stormwater storage and treatment

requirements by a combination of structural stormwater treatment practices. The proposed stormwater system will be comprised of the following components:

1. **Collection:** The site has been graded to collect all stormwater using a network of catch basins; these catch basins will have a sump of 24" and be subject to routine maintenance.
2. **Pretreatment:** The network of catch basins will drain into an ADS HDPE Pipe Water Quality Unit (see detail, Sheet S3 'Stormwater Management Details and Specifications' in Appendix A16) where storm water runoff will receive pretreatment. The ADS HDPE Water Quality Unit is designed with two weir plates to trap oils and total suspended solids as the stormwater flows through surface drainage structures and into the water quality unit. This structure also incorporates the use of a bypass system to divert water flows greater than the 'first flush' to the underground storage chambers this prevents re-suspension of captured solids. Independent testing has shown that the ADS HDPE Pipe Water Quality Unit is capable of achieving an 80% removal of Total Suspended Solids (TSS), 80% oil & grease removal, greater than 40% Total Phosphorus removal and 74% heavy metals removal. In addition the unit has been designed with a bypass system to prevent re-suspension of captured solids by diverting water flows greater than the first flush. The ADS Water Quality Unit will be subject to inspection and maintenance as outlined on Sheet S3 'Stormwater Management Details and Specifications in Appendix A16.
3. **Storage/detention:** After receiving pretreatment stormwater runoff from the site will flow to a series of Stormtech SC-310 storage chambers. These underground storage chambers have been sized to meet the storage requirements for the 1 and 10-year storm events. An outlet structure has been proposed to control the rate at which the stormwater is released in accordance with the current stormwater regulations.
4. **Treatment:** After being detained stormwater runoff will flow to Catch Basin #13 which has been designed as a water quality diversion structure. Runoff associated with the water quality storm event, or first flush, is discharged through a lower 12" HDPE outlet pipe, at elevation 336.50', and outlets to a grassed treatment channel. Runoff from larger storm events is discharged through a higher 18" HDPE outlet pipe, at elevation 336.75', and is then piped down Commerce Street Extension and Commerce Street before discharge to the detention area approved under stormwater permit No. 3034-9010.R.
5. **Discharge:** Both the grassed treatment channel, designed to discharge the water quality storm event, and the 18" outlet designed, to transport the larger storm events, discharge directly into the detention area approved under stormwater permit No. 3034-9010.R before ultimately discharging into Patrick Brook (S/N 001).

We have analyzed the proposed stormwater impacts for the 1 year, 10 year, and the 0.9 inch Water Quality Volume design storm events using the HydroCAD software. A copy of the model reports has been included in Appendix A15. As designed the Lot 15 stormwater system will be adequately sized to handle the increased peak flow rates associated with new development. A summary of the proposal is as follows:

- a. The Proposal will create 2.69-acres of impervious area. This is in addition to the 0.19-acres which was built as part of Commerce Street Extension to serve

the National Bank of Middlebury and is covered under existing stormwater discharge permit #3034-9010.R.

- b. The receiving water is a tributary which flows into Patrick Brook (S/N 001).
- c. Patrick Brook has been designated a cold water fish habitat by the Vermont Water Quality Standards provided in Appendix A8.
- d. The location of the discharge point (S/N 001) has been shown on the USGS Map provided in Appendix A3 and has been listed on the Notice of Intent.
- e. Demonstrate Compliance with each of the criteria
 - i. Water Quality Treatment Standard

The Water Quality Treatment Standard is designed to capture 90 percent of the annual storm events, to remove 80 percent of the average annual post development total suspended solids load (TSS), and 40 percent of the total phosphorus (TP) load. Table 2.1 of the Vermont Stormwater Management Manual provides a list of acceptable practices for water quality treatment.

The water quality treatment standard for this site has been met using a grass treatment channel (O-3). An outlet structure controls the release of runoff from the underground storage system and a diversion structure has been designed to discharge the water quality storm event into the existing grassed swale located between Lots 12 and 15; larger storm events discharge runoff directly to the detention area located between Lots 2 and 3. The grass treatment channel has been sized to provide in excess of ten minutes of residence time, at a velocity of no greater than 1 ft/s, and at a depth generally no greater than 4". Where the depth of flow has exceeded 4" the Manning's n value was adjusted in accordance with Figure D.14 of the Vermont Stormwater Management Manual.

POI 'A and B' – Runoff from these points of interest combine and discharge into grass treatment channel 'C' which then flows to grass treatment channel 'F'. See Sheet S1 'Stormwater Management Plan' in Appendix A16. A residence time of 22.2 minutes exceeds the required 10 minutes ensuring that the water quality standard is met. A breakdown of the residence times, max velocity, flow depth associated with the water quality storm event is as follows:

Grass Treatment Channel 'C' – 7.9 min, 0.49 ft/s, 6.4" (n=0.11)
Grass Treatment Channel 'F' – 14.3 min, 0.30 ft/s, 5.9" (n=0.12)

POI 'C – H' - N/A, these points of interest are located off-site and are currently covered under General Permit #3034-9010.R.

- ii. Groundwater Recharge Treatment Standard

The Groundwater Recharge Treatment Standard requires that average annual recharge rate for the prevailing hydrologic soil group(s) (HSG) be maintained in order to preserve existing water table elevations. The ground water recharge treatment standard has been met using a grassed channel and the "Percent Area Method".

POI 'A and B' – Runoff from these points of interest combine and discharge into grass treatment channel 'C' which then flows to grass

treatment channel 'F'. See Sheet S1 'Stormwater Management Plan' in Appendix A16. By meeting the requirements of the water quality standard, the requirement of the groundwater recharge standard is also automatically met per Section 2.3 of the Vermont Stormwater Management Manual. Based on the site soils the percent area method requires that 0.06 acres from the site drain to the grass treatment channel. The grass treatment channel has been designed to provide water quality treatment for 3.55 acres thus exceeding the sites' recharge requirement.

POI 'C - H' - N/A, these points of interest are located off-site and are currently covered under General Permit #3034-9010.R.

iii. Channel Protection Standard

The Channel Protection Standard requires that the storage of the channel protection volume (CPV) shall be provided by means of 12 to 24 hours of extended detention storage (ED) for the 1-yr, 24-hour rainfall event.

The channel protection volume has been met by the use of an underground storage vault (LA2). Each underground storage vault has been sized to contain the 1-yr storm events and provide for 12 hours of extended detention.

POI 'A' - A volume of 2,981 cu. ft. is required to meet the 1-year storage requirements. One hundred ninety (190) new storm-tech SC-310 storage chambers and outlet control structure have been proposed which provides 6,142 cu. ft. of storage and a center of mass detention time of 12.3 hours.

POI 'B' - A volume of 8,390 cu. ft. is required to meet the 10-year storage requirements. Three hundred fifty-seven (357) new storm-tech SC-310 storage chambers and outlet control structure have been proposed which provides 11,718 cu. ft. of storage and a center of mass detention time of 12.1 hours.

POI 'C - H' - N/A, these points of interest are located off-site and are currently covered under General Permit #3034-9010.R.

iv. Overbank Flood Protection Standard

The Overbank Flood Protection Standard requires that the post-development peak discharge rate shall not exceed the pre-development peak discharge rate for the 10-yr, 24-hour storm event.

The overbank flood protection volume for each point of interest has been met by the use of an underground storage vault (LA2). Each underground storage vault has been sized to contain and control the release of the 10-yr storm events.

POI 'A' - The pre-development peak discharge is 0.62 cfs, the underground storage vault provides for 6,142 cu. ft. of storage resulting in a routed post-development peak discharge of 0.28 cfs.

POI 'B' – The pre-development peak discharge is 3.81 cfs, the underground storage vault provides for 11,718 cu. ft. of storage resulting in a routed post-development peak discharge of 2.70 cfs.

POI 'C – H' - N/A, these points of interest are located off-site and are currently covered under General Permit #3034-9010.R.

v. Extreme Flood Protection Standard

N/A, a waiver request has been submitted because the impervious coverage contributing to the drainage area is less than 10 acres. In addition, the waiver worksheet specifies that the ten (10) acre treatment requirement applies to only new impervious-created since July 4, 2005.

- f. The manner of discharge for the site is via a tributary to Patrick Brook after having been detained and released using an underground storage vault and receiving treatment via a grassed lined treatment channel.

Attached please find a General Permit (3-9015) application with application fee of \$1,276.70 (\$120 processing fee + (2.69-acres*\$430.00/acre fee = \$1,156.70)), Water Quality Map, USGS Map, Soils Map, reduced 11"x17" sets of plans and model reports generated from HydroCad. If you have any questions or need additional information, please feel free to call.

Sincerely,



Brian J. Bertsch, P.E.

NOTICE OF INTENT TO DISCHARGE STORMWATER
PURSUANT TO GENERAL PERMIT #3-9015

**Stormwater Discharges To Non-Stormwater Impaired Waters From
New Development, Expansions and Redevelopment**

1. Applicant Name(s): Martins Food of South Burlington Inc. (c/o Doug Boyce)
2. Is this NOI being submitted in connection with a subdivision?² Yes No
3. Address of Applicant(s): P.O. Box 1000, Portland, ME 04104

4. Telephone Number: (207) 885-2852
5. Fax: (207) 885-2192
6. E-mail: dboyce@hannaford.com
7. Project Name: Hannaford Supermarket & Pharmacy - Lot 15 Commerce Street
8. Project Location Address: Commerce Street Extension, Hinesburg, VT 05461

9. Project Location Coordinates (center of project): Latitude: 44 ° 20 ' 02 "
Longitude: 73 ° 6 ' 34 "
10. Act 250 Permit Number (if applicable): LUP #4C0654
11. Existing Stormwater Permit Number related to this project (if any): 3034-9010 ,1-0501
12. Number of discharge points for the project: 1 discharge point (8 points of interest, 2 on-site & 6 off-site)
13. Receiving Water(s): Patrick Brook

14. Have or will you be submitting an application for coverage under a construction discharge permit also? Yes No Not Applicable
15. The following items **must** be included in your application materials for your application to be considered complete. **Be certain to use the most up-to-date forms by downloading them directly from our webpage.** Submitted applications using out-of-date forms may be rejected.
 - Narrative
 - o Provide the information requested on the Application Narrative Instructions.
 - Schedule A(s) and Standard Treatment Practices (STPs)/Credit worksheets
 - o Complete and attach a copy of Schedule A for each discharge point from the project.
 - o Complete and attach STP/Credit/Waiver worksheets for each STP/Credit/Waiver listed on the Schedule A for each discharge point, as well as any necessary WQ_v/Re_v calculation sheets.

¹ If the applicant is a business, the business must be registered with the Secretary of State.

² Includes, but is not limited to, residential or commercial subdivisions, condominiums or industrial parks.

- Maps/Site Plans (11" x 17" preferred, all maps must have legend, scale bar and north arrow)
 - o Topographic map showing the location of the site, points of discharge, discharge points and receiving water(s).
 - o Soils map (with HSGs), overlaid with site outline.
 - o If existing impervious/stormwater treatment systems are present, include a site plan of existing conditions.
 - o Proposed conditions site plan, with existing impervious, redeveloped impervious and new (expanded) impervious clearly identified in the legend, labeled discharge points, and labeled locations of STPs or Credits.
 - o A detail sheet containing all applicable STPs for your project and demonstrating adherence to the design criteria for the STPs.
 - o Credit design detail sheet ("typical") when and where credits requiring specific design criteria will be used to meet standards.

- Runoff Modeling (where applicable)
 - o Pre-development/existing conditions sub-watershed delineations with labels and labeled points of interest/discharge points, overlaid over existing site plan with contours.
 - o Pre-development/existing conditions model schematic.
 - o Post-development/proposed conditions sub-watershed delineations with labels and labeled study points/discharge points, overlaid over proposed site plan with contours.
 - o Post-development/proposed conditions model schematic.
 - o Sub-watershed information (area and curve number assignment) for pre and post scenarios.
 - o Time of concentration calculations for pre and post scenarios.
 - o Runoff calculations for each element in the model.
 - o Calculation time span adjusted to include entire volume of runoff.
 - o Modified CN calculations if Water Quality (< 0.9") storm was modeled.

- Additional Supporting Information
 - o Any information/calculations required by STP/Credit/Waiver worksheets

16. Include a check for the appropriate permit fees:

Administrative processing fee (\$120.00):		120.00
		\$ _____
<i>plus</i>		+
Application review fee (\$_____ x _____ impervious acre ³):		1,156.70
(A minimum fee of \$220.00 applies)		\$ _____

Total Permit Fees (Check# _____):	\$ 1,276.70
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The minimum fee total is \$340.00.

³ Class A waters: \$1400/impervious acre

Class B waters: \$430/impervious acre

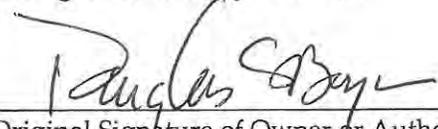
Round impervious acreage listed on Schedule A's to nearest 0.01 acre (e.g. 1.35 acres vs. 1.4 acres)

Date of application: 9-10-12

17. DESIGNER CERTIFICATION: I hereby certify that the design-related information submitted with this application for coverage under General Permit 3-9015 was prepared under my direction or supervision and that the information is, in the exercise of my reasonable professional judgment, true, accurate and complete. I also hereby certify that the stormwater collection, treatment and control system design submitted with this application **complies with DEC's Stormwater Management Rule and the Vermont Stormwater Management Manual.**

	Professional Engineer
Original Signature of Stormwater Designer	Title
Paul O'Leary Jr., P.E.	
Print or Type Name	

18. OWNER / OPERATOR CERTIFICATION: I hereby certify that I have read General Permit 3- 9015 and agree to abide by its terms.

19. 

Original Signature of Owner or Authorized Representative ⁴	SR SITE ENGINEERING PROJECT MGR
	Title

Martins Food of South Burlington Inc. (c/o Doug Boyce)

Print or Type Name

Original Signature of Operator (if any) or Authorized Representative	Title
Print or Type Name	

Note: Submission of a Notice of Intent does not confer coverage under General Permit 3-9015. A permit must be deemed technically complete and the applicant must receive a signed authorization to discharge before the discharge of regulated stormwater from impervious surfaces requiring coverage is authorized.

⁴ If the applicant is an individual, but the NOI is being signed by an authorized representative, then a letter indicating that said person is the authorized representative must accompany this NOI. If the applicant is a business (registered with the Secretary of State) then the signature must be provided by one of the following i) the person listed as the registered agent with the Secretary of State; ii) an executive figure such as the president, chairperson or superintendent, or; iii) an individual whose status as an authorized representative is verified in writing by the registered agent or executive figure.



O'Leary-Burke Civil Associates, PLC

CIVIL ENGINEERING | REGULATORY AND PERMIT PREPARATION | LAND SURVEYING | CONSTRUCTION SERVICES | LAND USE PLANNING

February 14, 2013

Kevin Burke
Vermont Dept. of Environmental Conservation
Watershed Management Division
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

Re: Lot #15, Giroux Commercial Park
Commerce Street Extension, Hinesburg, VT
Moderate Risk Construction General Permit Application

Dear Kevin,

We are writing on behalf of Martin's Foods of South Burlington Inc., c/o Tyler Sterling, to apply for a Moderate Risk Construction General Permit for the proposed development of Lot #15 in the Giroux Commercial Park. Lot #15 is a 4.56-acre undeveloped parcel located off of Commerce Street Extension in Hinesburg, VT. The parcel is currently owned by the Giroux Family Trust, c/o Bernard, June, Victor & Romona, Martins Foods of South Burlington, Inc. has an option to purchase the property pending all local and state approvals.

This application is for the construction of a 36,325 sq. ft. Hannaford Supermarket and Pharmacy with associated infrastructure. Construction has been broken down into three separate phases to minimize the area disturbed at any one time. Tyler Sterling will be the On-site coordinator and will be responsible for supervising and documenting the status of the Erosion Prevention and Sediment Control Plan, the records of which will be kept on-site.

The following items are enclosed;

- Moderate Risk NOI w/ fee of \$360;
- Appendix A
- EPSC summary forms
- EPSC Plan (sheets E1- E6);
- U.S.G.S. Map with project;

If you have any questions or comments, please call.

Sincerely,

Brian J. Bertsch, P.E.

Enc:
Cc: Tyler Sterling, David White

Notice of Intent (NOI)

for Stormwater Discharges Associated with
Construction Activity on

Moderate Risk Sites

Under Vermont Construction General Permit 3-9020

For Department Use Only
NOI Number: _____



Submission of this completed Notice of Intent (NOI) constitutes notice that the entity in Section A intends to be authorized to discharge pollutants to waters of the State, from the project identified in Section E, under Vermont's Construction General Permit (CGP). Submission of this NOI also constitutes notice that the party identified in Section A of this form has read, understands and meets the eligibility conditions of the CGP; has determined that the project qualifies for coverage as a Moderate Risk project in conformance with Appendix A of the CGP; agrees to comply with all applicable terms and conditions of the CGP; understands that continued authorization under the CGP is contingent on maintaining eligibility for coverage; and, that the applicable practices within the authorized Erosion Prevention and Sediment Control Plans must be implemented and maintained for the duration of construction activities. In order to be granted coverage, all information required on this form must be provided and an application fee of \$360 payable to the State of Vermont must be submitted.

A. Landowner Information

1a. Name: Martin's Food of South Burlington, Inc. 1b. Contact (if applicable): Doug Boyce
2. Mailing Address
a. Street/P.O. Box: P.O. Box 1000
b. City/Town: Portland c. State: Maine d. Zip: 04104
3. Contact Information
a. Phone: (207) 885 2852 b. Fax: _____ c. Email: dboyce@hannaford.com

B. Principal Operator Information (if known)

1. Name: _____
2. Mailing Address
a. Street/P.O. Box: _____
b. City/Town: _____ c. State: Maine d. Zip: _____
3. Contact Information
a. Phone: _____ b. Fax: _____ c. Email: _____

C. On-Site Plan Coordinator Information (if known)

1. Name: Doug Boyce
2. Mailing Address:
a. Street/P.O. Box: P.O. Box 1000
b. City/Town: Portland c. State: Maine d. Zip: 04104
3. Contact Information
a. Phone: (207) 885-2852 b. Fax: _____ c. Email: dboyce@hannaford.com

D. EPSC Plan Preparer Information

1. Name: Paul O'Leary P.E., O'Leary-Burke Civil Associates PLC
2. Mailing Address
a. Street/PO Box: 1 Corporate Drive, Suite 1
b. City/Town: Essex Jct. c. State: Vermont d. Zip: 05452
3. Contact Information
a. Phone: (802) 878-9990 b. Fax: (802) 878-9989 c. Email: poleary@olearyburke.com

D. Project Information

1. Project Name: Lot 15, Giroux Commercial Park

2a. Is this project part of a Common Plan of Development¹? Yes No

2b. If Yes, Name of Development: Giroux Commercial Park

3a. Does this project have any previously issued or pending stormwater discharge permits? Yes No

3b. If Yes, Prior NOI Number(s): 3034-9010, 1-0501

4. Location Address

a. Street: Commerce Street Extension

b. City/Town: Hinesburg

c. Latitude: 44 °20 '02 "

d. Longitude: 73 °6 '34 "

e. County: Chittenden

➔ Use DEC's Waterbody Identification (WBID) ArcGIS webpage ([click here](#)) to answer questions 5 and 6 below.

5. Name of receiving water(s)²: Patrick Brook

6. Include a topographic location map.

7. Project Type: Residential Commercial Industrial Other: _____

8. Total Area of Disturbance: 4.6 acres 9. Description of construction activities to be permitted (below):

The proposal is to construct a 36,000 +/- square foot Hannaford supermarket and associated infrastructure.

E. Public Notice Requirement

You must provide a copy of this complete NOI and related Appendix A to the municipal clerk for posting in the municipality in which the project is located. If the project and the related discharge(s) are located in different municipalities, then the completed NOI must be filed with the municipal clerk in each municipality. The municipal clerk must post the completed NOI. In order to be considered complete, you must include the date of posting.

Date of Posting at Municipal Office(s): _____

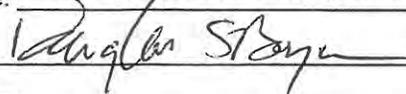
Information for the Municipal Clerk regarding posting instructions can be found on **Page 4** of this NOI.

F. Certification Relating to the Accuracy of the Information Submitted

I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I also certify that the Erosion Prevention and Sediment Control Plan authorized with this Notice of Intent will be implemented and maintained in accordance with Construction General Permit 3-9020 (amended 2008).

Landowner Name: Martin's Food of South Burlington, Inc.

Title: c/o Doug Boyce

Signature: 

Date: 2/4/2013

Principal Operator:
(if known)

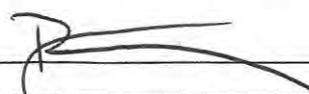
Title: _____

Signature: _____

Date: _____

EPSC Plan Preparer: PAUL O'LEARY
(if applicable)

Title: PROFESSIONAL ENGINEER

Signature: 

Date: 2/14/2013

¹ "Common Plan of Development" is defined within the CGP 3-9020, Appendix C – Definitions, page A-12

² "Waters of the State" (i.e. receiving water) is defined within the CGP 3-9020, Appendix C – Definitions, page A-16

For Department Use Only

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION AUTHORIZATION TO DISCHARGE

A determination has been made that the proposed construction activities qualify for coverage under General Permit 3-9020 (amended 2008) as a Moderate Risk project. Subject to the conditions of General Permit 3-9020 (amended 2008) the applicant is hereby authorized to discharge stormwater runoff from a construction site as described in this Notice of Intent Number _____-9020.

Dated this _____ day of _____, 20____

David K. Mears, Commissioner Department of Environmental Conservation

By: _____
Padraic Monks, Program Manager
Stormwater Program

PUBLIC COMMENT

Public comments concerning this Notice of Intent to discharge under CGP 3-9020 (amended 2008) are invited and must be submitted within 10 days of receipt of this Notice by the Municipal Clerk. Comments should address how the application complies or does not comply with the terms and conditions of CGP 3-9020 (amended 2008). A letter of interest should be filed by those persons who elect not to file comments but who wish to be notified if the comment period is extended or reopened for any reason. All written comments received within the time frame described above will be considered by the Department of Environmental Conservation in its final ruling to grant or deny authorization to discharge under CGP 3-9020 (amended 2008). Send written comments to:

Vermont Department of Environmental Conservation
Watershed Management Division, Stormwater Program
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Please cite the NOI number in any correspondence.

APPEALS

Renewable Energy Projects – Right to Appeal to Public Service Board

If this decision relates to a renewable energy plant for which a certificate of public good is required under 30 V.S.A. §248, any appeal of this decision must be filed with the Vermont Public Service Board pursuant to 10 V.S.A. §8506. This section does not apply to a facility that is subject to 10 V.S.A. §1004 (dams before the Federal Energy Regulatory Commission), 10 V.S.A. §1006 (certification of hydroelectric projects) or 10 V.S.A. Chapter 43 (dams). Any appeal under this section must be filed with the clerk of the Public Service Board within 30 days of the date of this decision. For further information, see the Public Service Board website at <http://psb.vermont.gov> or call (802) 828-2358. The address for the Public Service Board is 112 State Street Montpelier, Vermont 05620-2701.

All Other Projects – Right to Appeal to Environmental Court

Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available online at www.vermontjudiciary.org or call (802) 828-1660. The address for the Environmental Court is 2418 Airport Road, Suite 1, Barre, Vermont 05641.

A copy of CGP 3-9020 (amended 2008) may be obtained by calling (802) 338-4835; by visiting the Department at the above address between the hours of 7:45 am and 4:30 pm; or by download from the Watershed Management Division's Web site at: www.vtwaterquality.org.

INFORMATION FOR MUNICIPAL CLERK

10 V.S.A. Chapter 47 §1263(b) provides for the public notice of an applicant's intent to discharge stormwater runoff associated with construction activity. Please post this notice and instruction sheet in a conspicuous place for 10 days from the date received. If you have any questions, contact the Watershed Management Division of the Department of Environmental Conservation at (802) 338-4835.

Submit this form and the \$360 fee to:

**Vermont Department of Environmental Conservation
Watershed Management Division, Stormwater Program
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408**

APPENDIX A - RISK EVALUATION

Accurately answering the questions in this appendix will allow you to determine whether a proposed construction project is considered a Low Risk or Moderate Risk project, which defines the application and permit requirements that are applicable to your project.

The risk evaluation procedure consists of two parts. Part I is a Basic Risk Evaluation, which determines if a project is automatically categorized as Low Risk based upon the answers to a few basic questions.

If a project is not automatically categorized as Low Risk based upon the Basic Risk Evaluation, you must complete Part II, Detailed Risk Evaluation, to determine the risk category for your project. This part includes questions on more detailed aspects of the project.

Once the appropriate risk category has been determined, refer to Part III for the application requirements.

You should be aware that each completed Appendix A is incorporated by reference and included in the terms of this general permit, and each permittee shall undertake its construction activities in accordance with the completed Appendix A, as a condition of this permit. Failure to comply with the completed Appendix A shall be deemed a violation of this permit and subject to enforcement action.

APPENDIX A

Part I – Basic Risk Evaluation

A project may automatically be categorized as Low Risk based on a few basic project characteristics. Answer each question below to determine if a project is automatically categorized as Low Risk. For definitions of terms used in the following questions (e.g. disturbance, vegetated buffer) refer to Appendix C.

Basic Risk Evaluation				
	Criteria	Answer	Score Direction	Enter Score
1.	Will the proposed independent project alone disturb more than 2 acres of land?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	If YES, enter 1, if NO enter 0	1
2.	Is the project within a watershed impaired due to stormwater or sediment as specified on Part A of the Vermont 303(d) list?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
3.	Will the project have any stormwater discharges from the construction site to receiving water(s) that do not first pass through a 50 ft vegetated buffer area?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	If YES, enter 1, if NO enter 0	1
4.	Will the project have disturbed earth in any one location for more than 14 consecutive calendar days without temporary or final stabilization?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
5.	Will the project have more than five acres of disturbed earth at any one time?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
Total Score for Basic Risk Evaluation (add score from questions 1-5)				2

If the Total Score for Basic Risk Evaluation is 0, the proposed project is eligible for coverage under this permit as a Low Risk project. Proceed to Part IV of Appendix A for a summary of the application requirements for Low Risk Projects. If not, proceed to Part II.

Criterion 1: Only include the disturbance planned for an independent project. For example, if a lot owner is only building on a single house lot in a residential subdivision, only consider the disturbance associated with that lot, not the entire common plan. Refer to Appendix C for definitions of independent project and disturbance.

Criterion 2: Refer to the following web page for a list of waters in these categories:
http://www.vtwaterquality.org/stormwater/htm/sw_cgpeligibility.htm

Criterion 3: Refer to the Appendix C for the definition of vegetated buffer area.

Criterion 4: Refer to Appendix C for definitions of temporary and final stabilization.

Criterion 5: Refer to Appendix C for the definition of disturbed earth.

Part II – Detailed Risk Evaluation

For projects not automatically categorized as Low Risk in Part I, this Detailed Risk Evaluation must be completed to determine if a project is Low Risk, Moderate Risk, or requires an Individual Permit. This evaluation determines the risk category by weighing the balance of factors which contribute to and mitigate against the risk of a discharge of sediment from the construction project. Complete all questions in Part II for the independent project. For definitions of terms used in the evaluation, refer to Appendix C.

Detailed Risk Evaluation – Identify Risk Factors				
Criteria		Answer	Score Direction	Enter Score
A.	Will the proposed project have earth disturbance within 100 ft (horizontal) upslope of any lake or pond or 50 feet (horizontal) upslope of any rivers or stream (perennial or seasonal)?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
B.	Will the project have stormwater discharges by direct conveyance (tributary, channel, ditch, storm sewer, etc.) to a water of the state listed on the 303 (d) Part A list as being impaired by stormwater or sediment; a Class A Water; or an Outstanding Resource Water?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
C.	Will the project have more than five acres of disturbed earth at any one time?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
D.	Will the project have disturbed earth in any one location for more than 14 consecutive calendar days without temporary or final stabilization?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
E.	Will the project include more than one acre of disturbance on soil that is greater than 15% slope?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
F.	Will the project include more than one acre of disturbance of soils with a high ($K > 0.36$) erodibility rating?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	If YES, enter 1, if NO enter 0	1
G.	Total Score for Risk Factors (add A through F)			1

Criterion A: Measure lake distance from mean water level, and stream or river distance from top of bank. Do not include disturbance for the installation of stormwater treatment facilities or road stream crossings if there are no reasonable alternative locations.

Criterion B: Refer to http://www.vtwaterquality.org/stormwater/htm/sw_cgpeligibility.htm for the listing.

Criterion C: The maximum allowable for Low Risk Projects is 7 acres. **Moderate risk projects over 5 acres may be required to file an Individual Discharge Permit application if determined necessary by the Secretary.**

Criterion D: The maximum allowable for Low Risk Projects is 21 days. **Moderate risk projects over 21 days may be required to file an Individual Discharge Permit application if determined necessary by the Secretary.**

Criterion E: Include disturbance for the duration of the project, not at any one point in time. Slope determinations should be based on a site survey of the future disturbance area.

Criterion F: Include disturbance for the entire individual project, not at any one point in time. The Erosion Factor K, is a measure of the inherent erodibility of a soil type. Refer to NRCS soil maps for your county. If soils data is not available (e.g. if the site is built on assorted fill material), contact ANR for directions on evaluating soil erodibility.

Part II Continued – Detailed Risk Mitigation Factor Evaluation

Detailed Risk Evaluation – Identify Risk Mitigation Factors				
Criteria		Answer	Score Direction	Enter Score
H.	Will stormwater leaving the construction site pass through at least 50 feet of established vegetated buffer before entering a receiving water?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
I.	Will the project be limited to two acres or less of disturbed earth at any one time?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
J.	Will the project have a maximum of 7 consecutive days of disturbed earth exposure in any location before temporary or final stabilization is implemented?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
K.	Will the project disturb less than two acres of soil with an erodibility higher than K=0.17?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, enter 1, if NO enter 0	0
L.	Will the project include less than two acres of disturbance on soil that is greater than 5% slope?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	If YES, enter 1, if NO enter 0	1
M.	Total Score for Risk Mitigation Factors (add H through L.)			1

Criterion H: Refer to Appendix C for a definition of vegetated buffer.

Criterion I: Refer to Appendix C for a definition of earth disturbance.

Criterion J: Refer to Appendix C for definitions of temporary and final stabilization.

Criterion K: Include disturbance for the duration of the project, not at any one point in time. The Erosion Factor K, is a measure of the inherent erodibility of a soil type. Refer to NRCS soil maps available at USDA-NRCS District Offices. If soils data are not available (e.g. if the site is built on assorted fill material), contact DEC for directions on evaluating soil erodibility.

Criterion L: Include disturbance for the duration of the project, not at any one point in time. Slope determinations should be based on a site survey of the proposed disturbance area.

Total Risk Score		
N.	Moderate Risk Base Score	2
O.	Enter Score from Line G above (Risk Factor Total)	1
P.	Add lines N and O	3
Q.	Enter Score from Line M above (Risk Mitigation Factor Total)	1
R.	OVERALL RISK SCORE: Subtract line Q from line P	2

Part III– Interpreting the Detailed Risk Evaluation

OVERALL SCORE	Risk Category	Directions for Filing for Permits
<1	Low Risk	<p>The proposed project is eligible for the Construction General Permit as a Low Risk project provided that the requirements of Subpart 2 are met. If these requirements cannot be met, contact DEC to determine if the project should seek coverage as a Moderate Risk project or under an Individual Discharge Permit.</p> <p>Refer to Part IV of Appendix A for a summary of the application requirements for Low Risk projects.</p>
1-2	Moderate Risk	<p>The proposed project is eligible for the Construction General Permit as a Moderate Risk project provided that the requirements of Subpart 3 are met. If these requirements cannot be met, contact DEC to determine if the project should seek coverage as a Moderate Risk project or under an Individual Discharge Permit.</p> <p>Refer to Part IV of Appendix A for a summary of the application requirements for Moderate Risk projects.</p>
>2	Requires Individual Permit	<p>The proposed project is not eligible for coverage under the Construction General Permit, and therefore requires coverage under an Individual Discharge Permit. Please refer to Stormwater Section on the Water Quality Division website for more information: www.vtwaterquality.org/stormwater.htm.</p>

Part IV – Filing Directions

1. Low Risk Projects

Projects that qualify as Low Risk are required to implement the applicable practices detailed in the *Low Risk Site Handbook for Erosion Prevention and Sediment Control*. To obtain coverage under General Permit 3-9020 as a Low Risk project, applicants must submit the following to DEC:

1. A completed Notice of Intent form for General Permit 3-9020;
2. A completed Appendix A;
3. The required processing fee.

To satisfy the public comment requirement, **applicants must file a copy of the completed Notice of Intent form, including a copy of Appendix A, with the municipal clerk in the municipalities where the project will occur prior to submitting this information to ANR. Details of the public notice process are in Part 2 of the general permit.**

2. Moderate Risk Projects

Projects that qualify as Moderate Risk are required to implement a site-specific Erosion Prevention and Sediment Control (EPSC) Plan that conforms to *The Vermont Standards and Specifications for Erosion Prevention and Sediment Control*. To obtain coverage under General Permit 3-9020 as a Moderate Risk project, applicants must submit the following to DEC:

1. A completed Notice of Intent form for General Permit 3-9020;
2. A completed Appendix A;
3. A site-specific EPSC Plan;
4. A certification by the plan preparer that the EPSC Plan conforms to *The Vermont Standards and Specifications for Erosion Prevention and Sediment Control*;
5. The required processing fee.

To satisfy the public comment requirement, **applicants must file a copy of the completed Notice of Intent form, including a copy of Appendix A, with the municipal clerk in the municipalities where the project will occur prior to submitting this information to ANR. Details of the public notice process are in Part 3 of the general permit.**