

# NONRESIDENTIAL SITE PLAN APPLICATION

# City of Rochester, New Hampshire

		[office use only. Check #		Amount \$		Date paid	]
Date: 04/05/201		a conditional use no f so, we encourage					
Property info	ormation						
Tax map #: 117	; Lot #	('s): <u>2-8</u> ;	Zoning	district: _	Genera	l Industrial	
Property address	ss/location: 5	3 Allen Street, Roches	ster, NH				
Name of project	t (if applicable)	: Proposed Contract	tor Storag	e Yard			
Size of site: 2.5	6 acres; o	verlay zoning distri	ct(s)? _C	Conservatio	n Overla	ау	
Property owi	ner						
Name (include r	name of individ	lual): <u>Norman P. Ve</u>	tter Rev.	Trust & Sta	icia R. V	etter Rev. Trust	
Mailing address	: PO Box 181,	Rochester, NH 03866	6-0181				
Telephone #: _(	603)332-0354		_ Email	l:			
		ferent from property ual): Same as prop		er			
Mailing address:	:						
Telephone #:			_ Email	:			
,	ame of individ	ual): Scott A. Lawle	r, PE		-		
Telephone #: <u>(6</u>	03)335-3948		_ Fax #	<b>#</b> :	14		
Email address: _	slawler@norwa	yplains.com					
	X Sit	ll that apply) e development (oth					

Page 1 (of 3 pages)

(Continued Nonresidential Site Plan application Tax Map: 117 Lot: 2-8 Zone GI
Describe proposed activity/use: Proposed 60' X 72' Vehicle Storage Building with associated parking
Describe existing conditions/use (vacant land?): Site plan under construction, case # 117-2-8-I-18
Utility information
City water? yes _x no; How far is City water from the site? _Approx. 125'
City sewer? yes _x_ no; How far is City sewer from the site? _Approx. 120'
If City water, what are the estimated total daily needs? gallons per day
If City water, is it proposed for anything other than domestic purposes? yes no _x
If City sewer, do you plan to discharge anything other than domestic waste? yes no _x_
Where will stormwater be discharged? into the city's closed drainage system
Building information  Type of building(s): 60' X 72' metal vehicle storage building
Building height: 25' Finished floor elevation: 237.0'
Other information
# parking spaces: existing: 0 total proposed: 25; Are there pertinent covenants? no  Number of cubic yards of earth being removed from the site no earth will be removed  Number of existing employees: 0; number of proposed employees total: 6  Check any that are proposed: variance; special exception; conditional use
Wetlands: Is any fill proposed?; area to be filled:; buffer impact?

Proposed post-development disposition of site (should total 100%)						
	Square footage	% overall site				
Building footprint-vehicle storage building	12,960	11.63				
Building footprint-office building	896	0.80				
Parking and vehicle circulation	28,905	25.92				
Planted/landscaped areas (excluding drainage)	47,596	42.68				
Natural/undisturbed areas (excluding wetlands)	4,436	3.98				
Wetlands	1,753	1.57				
Other – drainage structures, outside storage, etc.	14,968	13.42				

Page 2 (of 3 pages)

				2 1

(Continued Nonresidential Site Plan application Tax Map: 11	7 Lot: 2-8	Zone GI
Comments		
Please feel free to add any comments, additional in	oformation, or request	s for waivers here:
		2
Submission of application	,	
This application must be signed by the property own property owner), <i>and/or</i> the agent.	ner, applicant/develor	per (if different from
I(we) hereby submit this Site Plan application to the	City of Rochester Pla	anning Board
pursuant to the City of Rochester Site Plan Regulat		
knowledge all of the information on this application		
materials and documentation is true and accurate. In property owner) as agent, I attest that ham duly aut		
	- Conzod to dot in time to	лараску.
Signature of property owner:		
	Date: 4/8/19	<u> </u>
Signature of applicant/developer:		-
	Date:	
Signature of agent:		
· · · · · · · · · · · · · · · · · · ·	Date: 4/5/19	
Authorization to anter subject property		
Authorization to enter subject property I hereby authorize members of the Rochester Plann	ing Roard Zoning Ro	eard of Adjustment
Conservation Commission, Planning Department, a	nd other pertinent City	y departments,
boards and agencies to enter my property for the pu	rpose of evaluating th	nis application
ncluding performing any appropriate inspections du post-approval phase, construction phase, and occup		
specifically to those particular individuals legitimately		
Inspecting this specific application/project. It is unde		viduals must use all
reasonable care, courtesy, and diligence when enter	ring the property.	
ignature of property owner:	2 0 1.1.	$\mathcal{A}$
	Date: <u>4/</u>	119

Page 3 (of 3 pages

# NORWAY PLAINS ASSOCIATES, INC.

**SURVEYORS • SEPTIC SYSTEM DESIGNERS • ENGINEERS** 

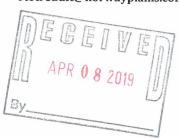
P.O. Box 249 Continental Blvd. (03867) Rochester, NH 03866-0249 Fax (603)332-0098 Phone (603) 335-3948 / (800) 479-3948 slawler@norwayplains.com



P. O. Box 268 31 Mooney St. Alton, NH 03809 Phone & Fax (603) 875-3948 www.norwayplains.com rtetreault@norwayplains.com

April 5, 2019

Seth Creighton, Chief Planner Department of Planning and Development 33 Wakefield Street Rochester, NH 03867-1917



Re: Non-Residential Site Plan Application; Norman Vetter Inc. - 53 Allen Street, Map 117, Lot 2-8.

Dear Mr. Creighton:

On behalf of Norman Vetter, Inc., we hereby submit plans and nonresidential site plan application for a proposed Contractor Storage Yard facility at 53 Allen Street. Norman Vetter Inc is looking to construct a third building on the site that has previously been through site review and was approved in September 2018.

Norman Vetter Inc. is proposing to construct a 60-foot by 72-foot building on the property. With this building, more parking is required. The parking lot has been expanded to include 5 additional spaces. The new building will not include any additional employees.

The stormwater from the new impervious surface will be directed towards the infiltration basin being constructed. The roof of the new building will be sloped into a stone drip edge with a perforated pipe that will outlet in the infiltration basin. The size of the basin has been slightly increased to accommodate the increase in stormwater going into it. There is a revised drainage report attached.

As is the case with the buildings under construction, the new building will to be serviced by City water and sewer systems. The water will be run from the other vehicle storage building on the site. The sewer will come from the sewer manhole. The site will have underground utility conduits run in from the street. The applicant is proposing one wall mounted lights.

We look forward to discussing this project with staff and the Planning Board. Thank you for your consideration

Sincerely,

NORWAY PLAINS ASSOCIATES, INC.

By:

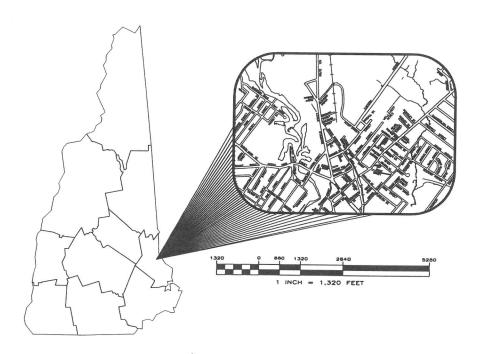
Scott A. Lawler, PE, Project Engineer

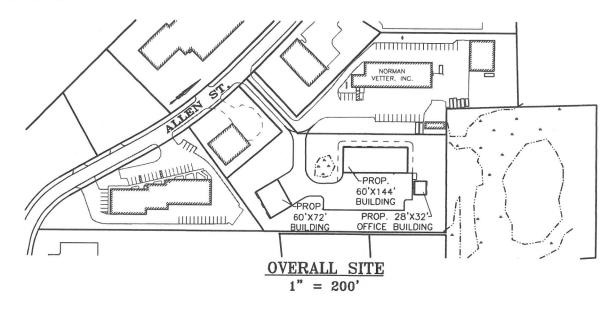
cc: Norman Vetter



# PROPOSED CONTRACTOR STORAGE YARD

PREPARED FOR NORMAN VETTER, INC. 53 ALLEN STREET ROCHESTER, NH 03867 APRIL 2019







CIVIL ENGINEERS

NORWAY PLAINS ASSOCIATES, INC. 2 CONTINENTAL BOULEVARD ROCHESTER, NEW HAMPSHIRE 03867 (603) 335-3948

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET. PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)—335—3948.

#### **APPLICANT**

NORMAN VETTER, INC. PO BOX 181 ROCHESTER, NEW HAMPSHIRE 03866-0181 (603) 332-0354

#### OWNER OF RECORD

TAX MAP 117, LOT 2-8
OWNER OF RECORD:
NORMAN P. VETTER REV. TRUST &
STACIA R. VETTER REV. TRUST
PO BOX 181
ROCHESTER, NH 03866-0181
SCRD BOOK 4578, PAGE 864

ATOMAL POLLUTANT DISCHARGE FLIMINATION SYSTEM (NPDES):

NPDES PERMITS ARE ONLY REQUIRED FOR PROJECTS MEETING THE DISTURBED AREA CRITERIA BELOW AND HAVING A POINT SOURCE STORMWATER DISCHARGE FROM THE SITE TO AN ADJACENT WETLAND OR WATER BODY (I.E. CULVERT, SWALE, ETC. OUTLETING TO A WETLAND, CREEK, STREAM OR RIVER).

NPDES PERMITS CONSIST OF A NOTICE OF INTENT (NOI) FILED WITH THE ENVIRONMENTAL PROTECTION ACENCY AT LEAST 14 DAYS PRIOR TO CONSTRUCTION COMMENCING, AND A STORMAYETR POLLUTION PREVENTION PLAN (SWPPP) BEING PREPARED, KEPT ON SITE AND FOLLOWED BY THE CONTRACTOR.

FOR STATUS OF THIS PERMIT, CONTACT THE PROJECT GENERAL CONTRACTOR

FINAL APPROVAL BY ROCHESTER PLANNING BOARD

SHEET	C-0	COVER	AS SHOWN
SHEET	E-1	EXISTING FEATURES	1" = 30'
SHEET	C-1	OVERALL SITE PLAN	1" = 30"
SHEET	C-2	SITE LAYOUT PLAN	1" = 30"
SHEET	C-3	GRADING, DRAINAGE, EROSION AND SEDIMENTATION CONTROL PLAN	1" = 30"
SHEET	C-4	UTILITY PLAN	1" = 30'
SHEET	C-5	CONSTRUCTION DETAILS	AS SHOWN
SHEET	C-6	DRAINAGE DETAILS	AS SHOWN
SHEET	C-7	UTILITY DETAILS	AS SHOWN
SHEET	C-8	SEWER DETAILS	AS SHOWN
SHEET	C-9	EROSION CONTROL DETAILS	AS SHOWN
SHEET	L-1	LIGHTING PLAN AND DETAILS	1" = 30"

SHEET INDEX

FILE NO. 210 PLAN NO. C-2917 DWG. NO. 18120/SP-2

#### LAND SURVEYORS CIVIL ENGINEERS CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. PROPERTY LINE LIMITS OF JURISDICTIONAL WETLANDS 50' WETLANDS BUFFER CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE (GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WIT IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET. PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)—335—3948. BEARINGS ANG DISTANCES LEGEND C1 ARC LENGTH = 15.89' R = 1025' L1 BEARING = \$05'21'03"E L = 9.11' EXISTING SQUARE CATCH BASH EXISTING ROUND CATCH BASIN 8/30/18 PER TRG REVIEW LETTER DATED AUGUST 28, 2011 EXISTING SEWER MANHOLE EXISTING HYDRANT GENERAL SITE PLAN NOTES 1. THIS PARCEL IS LOCATED IN THE GENERAL INDUSTRIAL (G) ZONE. 2. TOTAL PARCEL AREA: 111514 SQUARE FEET OR 2.56 ACRES. 3. THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING FEATURES ON THE LOT. EXISTING WATER GATE OR SHUT-OFF VALVE EXISTING WETLANDS THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING FEATURES ON THE LOT. ALL ENSTING UTILITIES LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR EXACT LOCATION PROF TO ANY WORK THESE PLANS SHOW ONLY THOSE FEATURES THAT WERE VISUALLY PER REFERENCE PLAN 1. DIMENSIONAL REGULATIONS PER ZONING ORDINANCE: GENERAL INDUSTRIAL(G) ZONE: MINIMUM LOT AREA = 20,000 FEET MINIMUM VARD SETBACKS: FRONT = 25' SIDE = 20' (CONTRACTOR STORAGE YARD = 25') REAR = 25' MAXIMUM LOT COVERAGE = 758' MAXIMUM BUILDING HEGGHT = 35' SANAMUM BUILDING HEGGHT = 35' SENAMUM BUILDING HEGGHT = 35' MAXIMUM BUILDING H MAY 17, 2003. SOIL TYPES ARE PER NATURAL RESOURCES CONSERVATION SERVICE (NRCS) REPORT. DA - DEERFIELD LOANY SAND, 0-3 % SLOPES ON SITE WETLANDS DELINEATED BY BARRY H. KETH IN APRIL 2018. OF SITE WETLANDS DELINEATED BY B.H. ASSOCIATES AS DEPICTED ON RECORDED SUBDIVISION "PLAN \$57-70. SEWER MANHOLE INFORMATION SMH 1 RIM = 236.19 SMH 2 RIM = 235.03 CB 2 RIM = 235.48 APPROX. LOCATION OF EXISTING 6" SEWER EXISTING 6" SEWER EXISTING 6" SEWER SERVICE ELEV = 236.58" FEXISTING OUTLET STRUCTURE 1 STRUCTURE 1 EXISTING 6" SEWER SERVICE ALLEN CB 3 RIM = 235.59 CB 4 RIM = 235.98 DMH 1 RIM = 236.75' INV IN. = 233.4' INV. OUT = 233.3' SUMP = 229.9' OUTLET STRUCTURE 1 RIM = 235.6' 3-1" ORFICES = 233.5' INV. OUT = 233.4' STRUCTURE 2 S 40°06'40" W OUTLET STRUCTURE 2 RIM = 235.73' INV. OUT = 232.8' SUMP = 231.6' WETLANDS DELINEATED BY B.H. KEITH -ASSOCIATES AS DEPICTED ON RECORDED SUBDIVISION PLAN #57-70 25' BUILDING SETBACK TEST PIT DATA OBSERVED BY NORWAY PLAINS ASSOCIATES, INC., CHARLES KARCHER JR. ON JULY 27, 2018 TP #1 0-19": 10 YR 5/6 COARSE SAND AND GRAVEL (FILL) 19"-24": 10 YR 3/3 SANDY LOAM 24"-36": 10 YR 6/3 SAND FIRM 36"-38": 2.5 YR 6/2 SAND WITH ROCKS OBSERVED WATER @ 36" VERY FIRM CEMENTED LAYER 38" AND DOWN SHWT @ 24" TP #2 0-22": 10 YR 5/6 SAND AND GRAVEL (FILL) 22"-28": 10 YR 3/3 OLD TOP SOIL 28"-36": 10 YR 5/4 SANDY LOAM WITH ROCKS 0BSERVED WATER @ 36" SHWT @ 28" TM:117-36 SNHS ELDERLY HOUSING II INC PO BOX 5040 MANCHESTER, NH 03108 7 #3 0-14": 10 YR 5/6 SAND AND CRAVEL 14"-24": 10 YR 3/3 SANDY LOAM ORGANICS 24"-36": 10 YR 5/6 SAND OBSERVED WATER @ 36" SHWT @ 24" TP #4 0-24\*: SAND AND GRAVEL (FILL) 24\*-36\*: ORGANIC LAYER 36\*-48\*: 10 YR 5/6 SAND MOTILED THROUGHOUT OBSERVED WATER @ 48\* SHWT @ 36\* TAX MAP 134, LOT 5 OWNER OF RECORD: NORMAN P. VETTER REV. TRUST & STACIA R. VETTER REV. TRUST PO BOX 181 ROCHESTER, NH 03866-0181 SCRD BOOK 4578, PAGE 864 -238-236-2345-BUILDING SETBACK 11/1 in minimum minimum minikam 86.96. 393.04' S 40 06 40" W EXISTING FEATURES PLAN /S 40°06'40 11/ TAX MAP 117, LOT 2-8 TM:117-42 DERIK B. & JANELLE B. CORMIER 17 EASTERN AVE ROCHESTER, NH 03867 53 ALLEN STREET ROCHESTER, NH PREPARED FOR: NORMAN VETTER, INC. FINAL APPROVAL BY REFERENCE PLAN 1) "SUBDIVISION PLAN OF LAND GLENWOOD AVENUE & ALLEN STREET, ROOLESTER, NH FOR MT. WALDO OPERATIONS, INC. DATED: APRIL 1998; BY NORWAY PLANS ASSOCIATES, INC. RECORDED: SCRID PLAN \$57-70 APRIL 2019 ROCHESTER PLANNING BOARD GRAPHIC SCALE

CERTIFIED BY: \_\_\_\_

FILE NO. 210

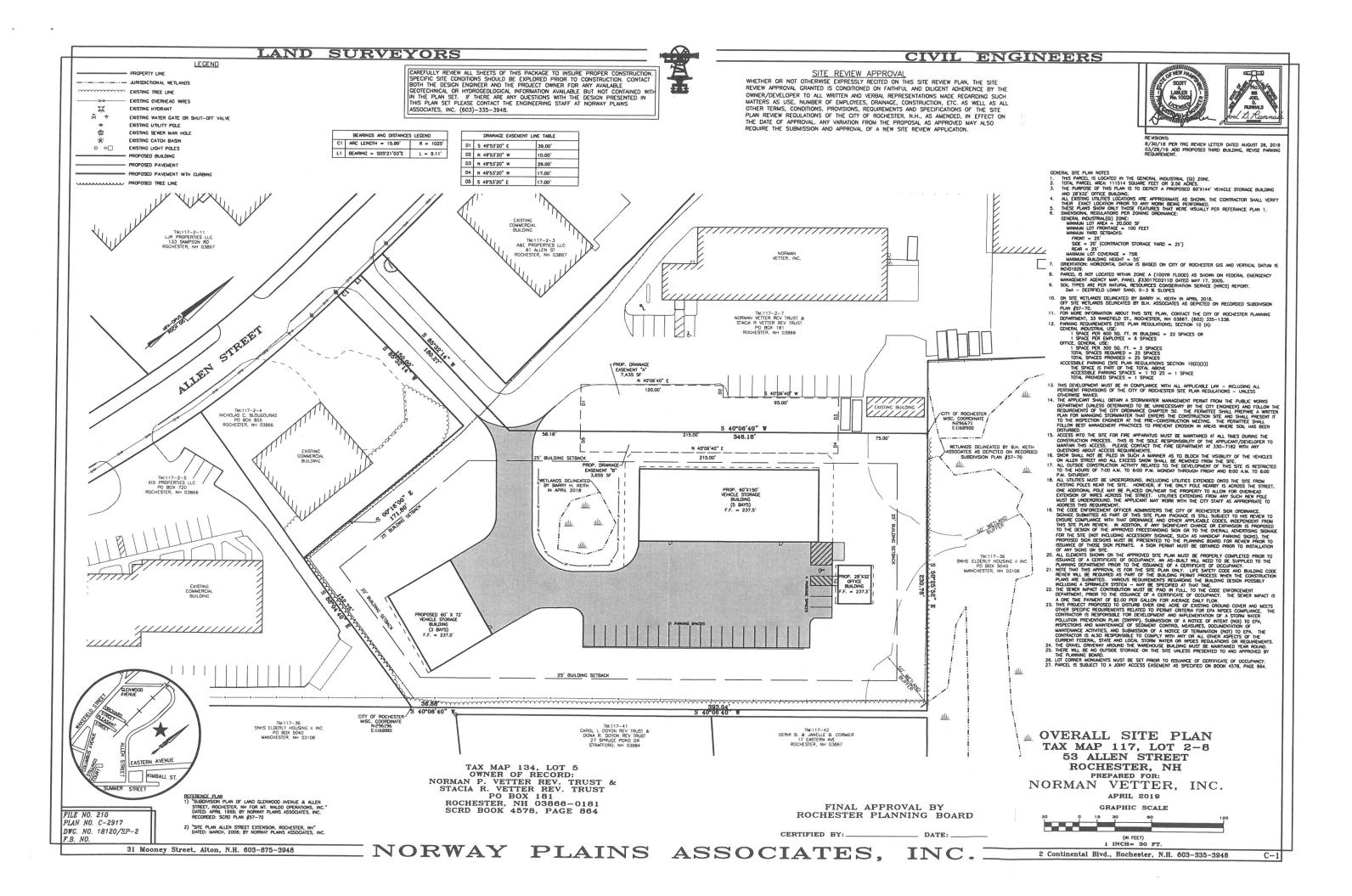
PLAN NO. C-2917

DWG. NO. 18120/SP-2

"SITE PLAN ALLEN STREET EXTENSION, ROCHESTER, NH" DATED: MARCH, 2006: BY NORWAY PLANS ASSOCIATES, INC.

31 Mooney Street, Alton, N.H. 603-875-3948

(IN FEET) 1 INCH = 30 FEET



LAND SURVEYORS CIVIL ENGINEERS LEGEND CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)—335—3948. ----- JURISDICTIONAL WETLANDS PROPOSED PAVEMENT EXISTING TREE LINE PROPOSED CONCRETE EXISTING OVERHEAD WIRES PROPOSED SIGNS H EXISTING HYDRANT PAVEMENT RADIUS (20') PROPOSED STANDARD PARKING SPACES (9' x 18') EXISTING WATER GATE OR SHUT-OFF VALVE EXISTING SEWER MAN HOLE EXISTING SQUARE CATCH BASIN EXISTING ROUND CATCH BASIN EXISTING LIGHT POLES PROPOSED BUILDING - PROPOSED PAVENENT PROPOSED TREE LINE CURSTRUCTION INUITS:

ALL DISTRUCTION OF CAME OF RAKED OR GRAVEL SHALL MAVE A MINIMUM

1. ALL DISTRUCTION OF CAME OF SECTION AND MULCIACID.

2. A NIGOX BOX MUST BE INSTALLED AT THE GATE TO ENSURE EASY

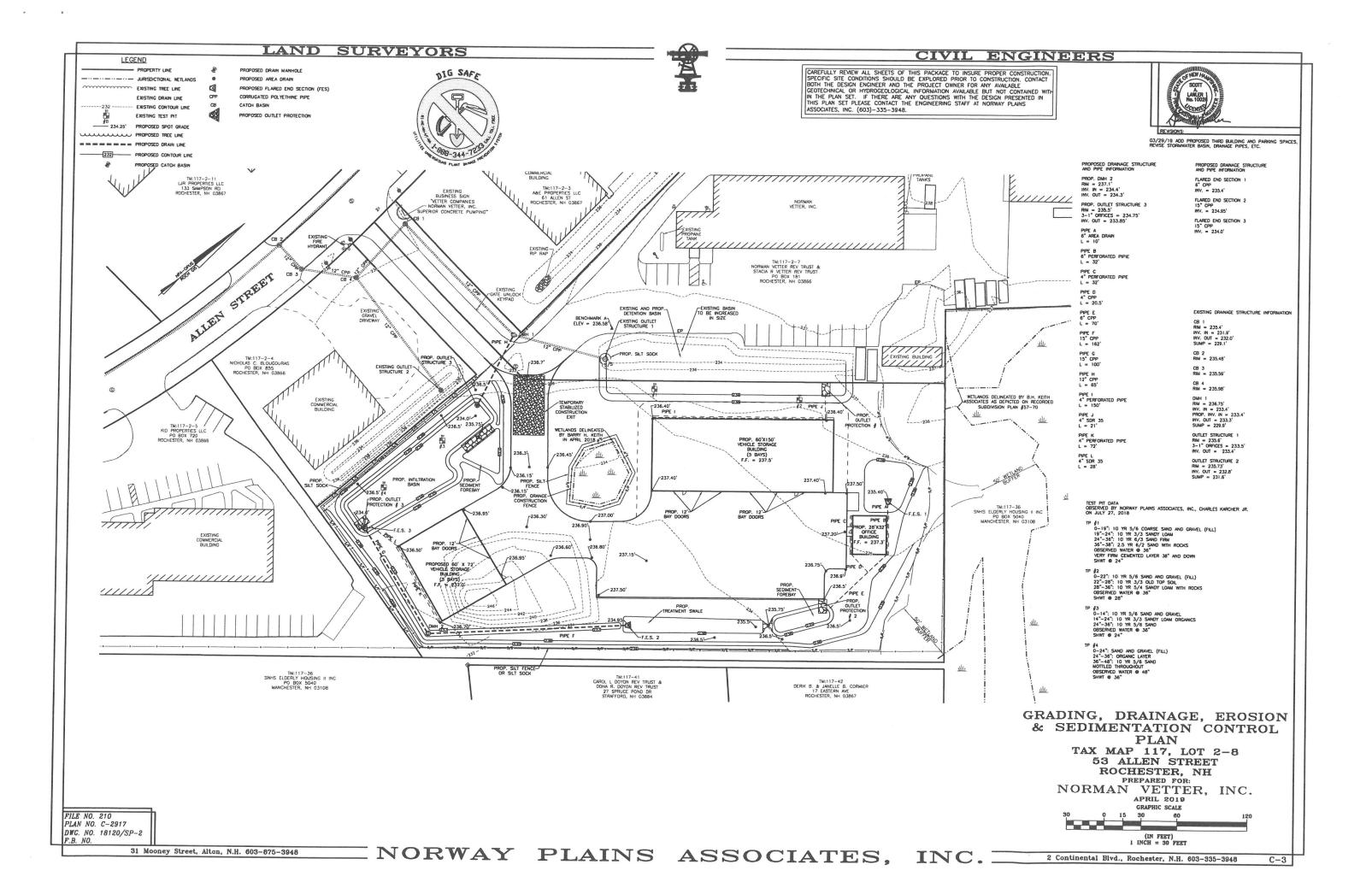
ACCESS FOR EMERGENCY VEHICLES.

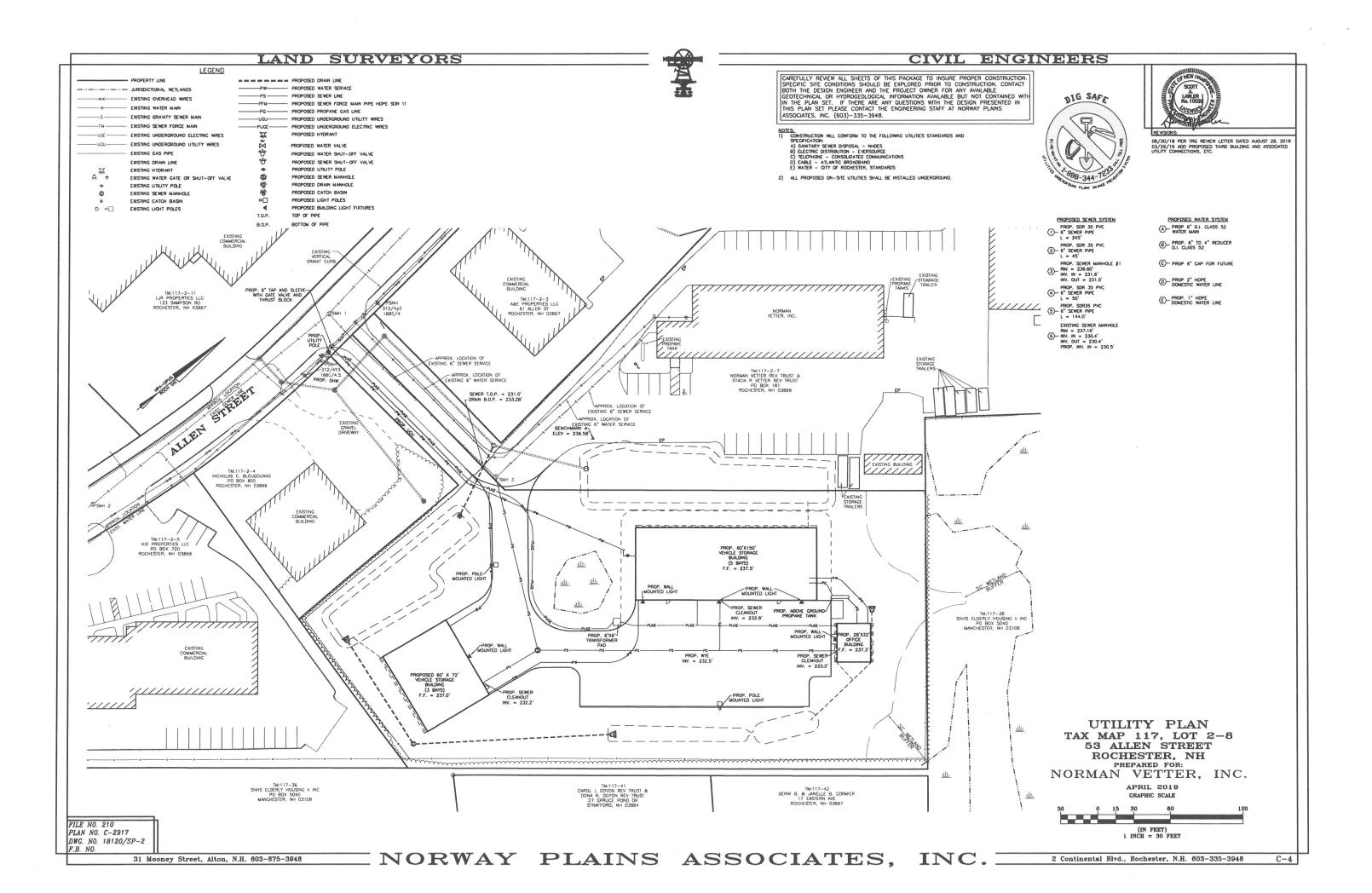
3. ADDRESS IDENTIFICATION SICH MUST BE AT LEASE 3.5' TALL,

CONTRASTING COLOR, AND CLEARLY VISION. 11/1/1/ LWETLAND TO BE PLANTED WITH HIGHBUSH BLUEBERRIES AND SEEDED WITH WETLAND SEED MIX 0 SITE LAYOUT PLAN INSTALL VINYL SLATE WITHIN EXISTING CHAINLINK FENCE TAX MAP 117, LOT 2-8 53 ALLEN STREET ROCHESTER, NH PREPARED FOR: NORMAN VETTER, INC. APRIL 2019 FINAL APPROVAL BY ROCHESTER PLANNING BOARD FILE NO. 210 PLAN NO. C-2917 CERTIFIED BY: \_\_ (IN FEET) 1 INCH = 30 FEET DWG. NO. 18120/SP-2 F.B. NO. — NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

31 Mooney Street, Alton, N.H. 603-875-3948



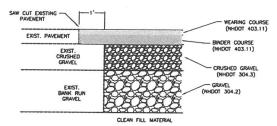




# HORZ. BRACE -- BRACE ROD & TURNBUCKLE

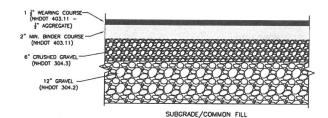
## TYPICAL CHAINLINK FENCE DUMPSTER ENCLOSURE

NOT TO SCALE



#### TYPICAL PAVEMENT MATCHING DETAIL

NOT TO SCALE



#### PARKING LOT CROSS-SECTIONS

NOT TO SCALE

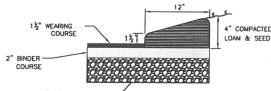
PAVEMENT NOTES:

1. PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.

2. PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.

3. PLACE CRUSHED GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.

4. PAVEMENT MUST BE INSTALLED IN TWO COURSES, A BINDER COURSE AND A WEARING COURSE.

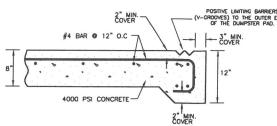


6" CRUSHED GRAVEL NHDOT 304.3

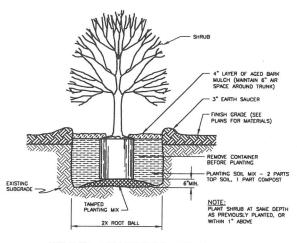
#### BITUMINOUS CAPE COD BERM DETAIL NOT TO SCALE

NOTES:

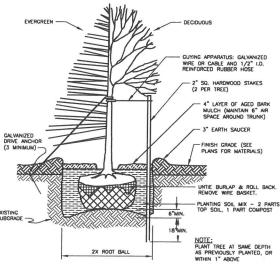
1. BITUMINOUS CAPE COD BERM SHALL BE INSTALLED ON TOP OF BINDER COURSE



#### **DUMPSTER PAD DETAIL** NOT TO SCALE



SHRUB PLANTING DETAIL NOT TO SCALE



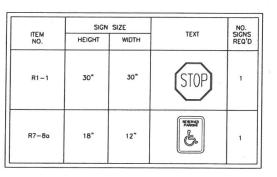
TREE PLANTING DETAIL

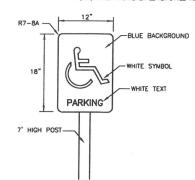
#### CIVIL ENGINEERS

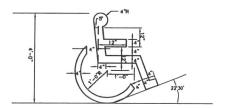
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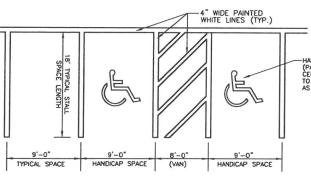
8/30/18 PER TRG REVIEW LETTER DATED AUGUST 28, 2011

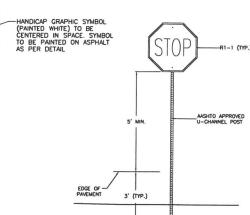






SIGN DETAIL NOT TO SCALE





# NOT TO SCALE

STALL STRIPING DETAIL

#### CONSTRUCTION SEQUENCE

1.) CUT ALL TREES AND REMOVE ALL STUMPS.

2.) CONSTRUCT SILT FENCE AND INSTALL SILT SOCKS AS SHOWN. MAINTAIN THE FENCE AND SILT SOCKS AS CONSTRUCTION PROGRESSES AND UNTIL ALL DISTRUBED AREAS ARE STABLE.

3.) CONSTRUCT THE DETENTION AND INFILTRATION BASIN AS SHOWN ON THE PLAN. LOAM, SEED, AND MULCH IMMEDIATELY AFTER CONSTRUCTION.

4.) THE DETENTION AND INFILTRATION BASIN MUST BE STABILIZED BEFORE DIRECTING RUNDFF TO THEM. REGISION CONTROL BLANKETS (CURLEX EXCELSIOR BY AMERICAN EXCELSIOR COMPANY, OR EQUAL) SHALL BE USED WHERE SOD IS NOT PLACED AND VEGETATION IS NOT ESTABILISHED.

5.) REMOVE THE LOAM AND VEGETATION FROM THE BUILDING, PARKING LOT AND BACKSLOPE AREAS. THE LOAM WILL NEED TO BE STORED FOR USE LATER IN STABILIZING THE SWALES AND SIDESLOPES. THE LOAM PILE SHALL BE SEEDED FOR TEMPORARY PROTECTION SHOULD IT REMAIN INACTIVE FOR MORE THAN 30 DAYS.

6.) CUT THE PARKING LOT, BACKSLOPE AREAS, AND BUILDING AREAS TO SUB-GRADE. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED OR COVERED WITH AN EROSION CONTROL BLANKET IMMEDIATELY AFTER THEIR CONSTRUCTION.

EROSION CONTROL BLANKET IMMEDIATELY AFTER THEIR CONSTRUCTION.

8.) CONSTRUCT THE CLOSED DRAINAGE SYSTEM AS SHOWN ON THE PLAN.

9.) INSTALL ALL UNDERGROUND UTILITIES AS DEPICTED ON THE UTILITY PLAN.

10.) INSTALL THE GRAVEL BASE IN ALL AREAS TO BE PAVED.

11.) INSTALL ALL NEW PAVEMENT.

12.) ALL DISTURBED AREAS EXCLUDING BUILDINGS AND PARKING SHALL BE STABILIZED AS SOON AS POSSIBLE, BUT IN NO CASE SHALL BE LEFT UNTABILIZED FOR MORE THAN 30 DAYS. BUILDINGS, PARKING LOTS, AND DRIVEWAYS SHALL BE CONSTRUCTED AS PRACTICABLE, BUT IN NO CASE SHALL BE LEFT UNPROTECTED OVER THE WINTER MONTHS.

NOTES:

1. SIGN POST SHALL BE AASHTO APPROVED U-CHANNEL OR OTHER PER ASSHTO "SPECIFICATIONS FOR STRUCTURAL SUPPORT OF HIGHWAY SIGNS, LUMINARIES AND SIGNAS," LATEST EDITION.

2. SIGNS SHALL BE MOUNTED 5 FT FROM GROUND TO BOTTOM EDGE WHERE PARGUNG AND PARGUNG LOT MOVEMENTS TAKE PLACE.

3. SIGNS SHALL BE PLACEE SO THAT NEAREST EDGE IS 2 FT. FROM EDGE OF PAREMENT UNLESS CURBED.

TYPICAL TRAFFIC SIGN

NOT TO SCALE

CONSTRUCTION DETAILS TAX MAP 117, LOT 2-8 53 ALLEN STREET ROCHESTER, NH PREPARED FOR: NORMAN VETTER, INC.

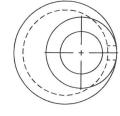
APRIL 2019

PLAN NO. C-2917 DWG. NO. 18120/SP-2 .B. NO.



#### CIVIL ENGINEERS





PLAN VIEW

7.3'-0",4'-0"	DRAIN MANHOLE DIAMETER	SUM OF DRAIN LINE DIAMETER	DRAIN LINE DIAMETER
	41	LESS THAN 54"	15" TO 18"
10-,2	5'	LESS THAN 72"	21" TO 27"
-1	6'	LESS THAN 90"	30° TO 33°
-	REFER TO THE STANDARD	GREATER THAN 90"	36" & LARGER

- NOTES:

  1. CONCRETE: 4,000 PSI AFTER 28 DAYS.

  2. REINFORCING: SHALL BE PROVIDED FOR H-20 CAUDING.

  OLOTIS SEALED WITH 1 STRIP OF BUTYL.

  RUBBER SEALANT.

  4. PIPE OPENINGS CAST IN AS REQUIRED.

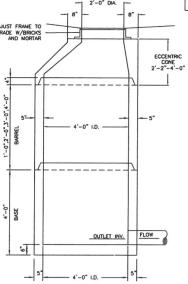
  SRISER REIGHT VARIES 1', 2', 3' OR 4' TO REACH DESIRED DEFTH.

  6. PIPE CONNECTIONS SHALL BE MORTARED.

  7. PRECAST SECTIONS SHALL CONFORM TO ASTM C-478.

- C-478.

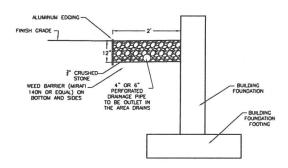
  8. SEE SLAB TOP DETAIL FOR STRUCTURES REQUIRING SLAB TOPS, I.E. DOUBLE GRATE AND FRAME STRUCTURES.



SECTION VIEW

## PRE-CAST REINFORCED DRAIN MANHOLE

NOT TO SCALE

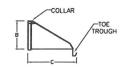


#### FOUNDATION AND DRIP EGDE DRAIN DETAIL





TOP VIEW

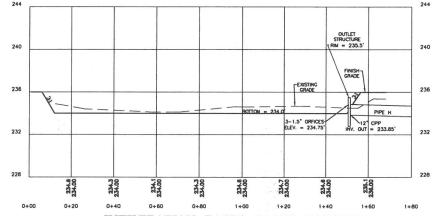




FRONT VIEW FLAIRED END SECTION DETAIL

NOT TO SCALE

FILE NO. 210 PLAN NO. C-2917 DWG. NO. 18120/SP-2 CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE CONTECHNICAL OR HYDROCEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY OUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET. PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLANS ASSOCIATES, INC. (603)-335-3948.



INFILTRATION BASIN CROSS SECTION 1" =20' (HORZ.) & 1" = 4' (VERT.)

#### INFILTRATION BASIN:

- SPECIFICATIONS:

  1. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE INFILITRATION BASIN.

  2. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILITATION BASIN.

  3. AFTER THE PROPERTY OF T
- MAINTEMANCE REQUIREMENTS:

  1. INSPECT PRETREATMENT MESSURES (I.E. SEDIMENT FOREBAY(S), HOODED CATCH BASINS, ETC.) AT LEAST TWICE A YEAR AND AFTER EVERY STORM GREATER THAN 2.5 INCHES OF RAIN OVER A 24-HOUR PERIOD.

  2. INSPECT INFLITATION SURFACE BI-ANNUALLY. ONCE IN THE SPRING PRIOR TO MAY 15 AND ONCE IN THE FALL PRIOR TO OCTOBER 19.

- MSPECT INFILITATION SURFACE, BI-ANTIVALLY. ORICE IN THE SHERIN PRIVATE TO MAY 13 AND OTHER IN THE FIRST TO COTOBER 13.

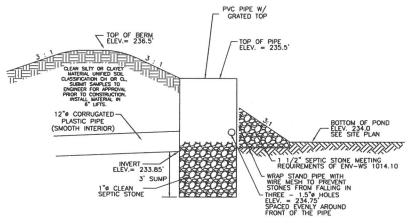
  MSPECT INFILITATION SURFACE AFTER ANY RAINFALL EVENT OF 2.5-INCHES OR GREATER IN A 24-HOUR PERIOD. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT BASED ON INSPECTION. REPARK AREA OF REMOVA, AS NECESSARY TO RESTORE INFILITATION CAPACITY TO RESTORE INFILITATION OF A CONTROL OF THE PROPERTY AND INFILITATION BASIS IN INLET BASED ON INSPECTION.

  REMOVE DEBITS (F ANY) FROM INFILITATION BASIS INLET BASED ON INSPECTION.

  REMOVE DEBITS (F ANY) FROM INFILITATION BASIS INLET BASED ON INSPECTION.

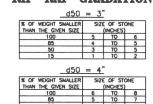
  REMOVE DEBITS (F ANY) FROM INFILITATION BASIS INLET BASED ON INSPECTION.

  THE PROPERTY OF THE STIFT IS RECOMMENDED. IN INCIDENT THE INFILITATION BASIS EXBANDIENTS WHEN MOWING THE INFILITATION BASIS EXBANDIENTS WHEN MOWING THE THE STORT THE STIFT IS RECOMMENDED. IN INCIDENT THE INFILITATION BASIS EXBANDIENTS WHEN MOWING THE THE STORT THE STIFT IS RECOMMENDED. THE PROPERSIONAL (I.E. PROFESSIONAL ENGINEER, CERTIFIED SOILS SCENTIST, ETC.) SHALL ASSESS THE CONDITION OF THE FACILITY TO DETERMINE BASEJURES REQUIRED TO RESTORE INFILITATION FUNCTION, INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE INFILITATION SURFACE.



INFILTRATION BASIN OUTLET CONTROL STRUCTURE NOT TO SCALE

# RIP-RAP GRADATION

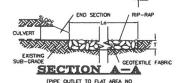


(PIPE OUTLET TO WELL DEFINED CHANNEL)

ULVERT

SECTION A-A

APRO	N DIMEN	SI	ON	TAI	BLE	
OUTLET PROT. #	PIPE OUTLET	Wo	W	La	T	d50
#1	36" CPP INTO FORABAY	9'	21.8	32.2'	18"	6"
#2	30" CPP INTO INFILTRATION BASIN	7.5	27.5	20.0'	9"	3"
/3	24" CPP OUTLET	6'	21.85	15.85	9"	3"
	#1 #2	OUTLET PROT. # PIPE OUTLET  #1 36° CPP INTO FORABAY  #2 30° CPP INTO INFILTRATION BASIN 24° CPP OUTLET  24° CPP OUTLET	OUTLET PROT. # PIPE OUTLET Wo 36" CPP 11 36" CPP 11 NTO FORABBAY 9" 12 30" CPP INTO 10 INFLITRATION BASIN 7.5"	OUTLET PROT. #   PIPE OUTLET   Wo   W	OUTLET PROT. #   PIPE OUTLET   Wo   W   Lo	OUTLET PROT. #   PIPE OUTLET   Wo   W   Lo   T



NUIES:

ALL PIPE CULVERTS SHALL HAVE END SECTIONS OR HEADWALLS. END SECTION MATERIAL AND MANUFACTURER SHALL MATCH THAT
OF THE PIPE CULVERT.

THE LARCEST RIP-RAP SIZE DETERMINED DURING HYDROLOGIC ANALYSIS HAS BEEN USED FOR ALL OUTLETS FOR ECONOMY AND
SHAPLICITY.

APRON LENGTHS, WIDTHS AND THICKNESSES HAVE BEEN ROUNDED UP TO WHOLE NUMBERS FOR EASE OF CONSTRUCTION.

CONSTRUCTION SPECIFICATIONS:

1. PREPARE THE SUB-GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP-RAP TO THE GRADES SHOWN ON THE PLANS.

2. IMPRIAND RES SAND/GRAVEL BEDDING OR GEOTEXTILE FABRIC REQUIRED UNDER ALL ROCK RIP-RAP.

3. THE ROCK OR GRAVEL USED FOR FILTER OR RIP-RAP SHALL COMPONE TO THE SPECIFIED GRAVITON.

3. THE ROCK OR GRAVEL USED FOR FILTER OR RIP-RAP SHALL COMPONE TO THE SPECIFIED GRAVITON.

4. APEAS IN THE FABRIC SHALL BE REPARED BY PLACED BY AS PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO (2) PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.

5. STONE FOR THE RIP-RAP MY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LYER THICKNESS IN ONE OPERATION AND IN SUCH A MANIER AS TO PREVENT SECREGATION OF THE STONE SIZES.

6. RIP-RAP SIZE CHOSEN FOR THE WORST CASE OF ALL OUTLETS. ALL RIP-RAP USED FOR PIPE OUTLET PROTECTION WILL HAVE THE SAME GRAVAIN AND THE MOST CASE OF ALL OUTLETS. ALL RIP-RAP USED FOR PIPE OUTLET PROTECTION WILL HAVE THE SAME GRAVAINON AND THE MOST CASE OF ALL OUTLETS. ALL RIP-RAP USED FOR PIPE OUTLET PROTECTION WILL HAVE THE SAME GRAVAINON AND THE MOST CASE OF ALL OUTLETS.

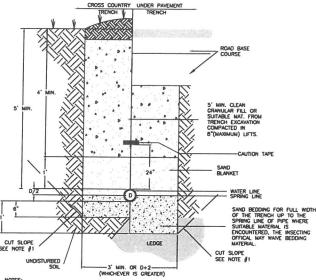
MAINTENANCE NOTES:

OUTLETS SHALL BE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EVENT. ANY EROSION OR DAMAGE TO THE RIP-ARP SHALL BE REPAIRED INNEDDATELY.

THE CHANNEL INNEDDATELY DOWNSTREAM FROM THE OUTLET SHOULD BE CHECKED TO SEE THAT NO EROSION IS OCCURRING. THE CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TALWARER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT INNEDDATELY TO ANOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

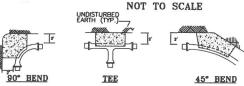
#### PIPE OUTLET PROTECTION DETAIL

DRAINAGE DETAILS TAX MAP 117, LOT 2-8 53 ALLEN STREET ROCHESTER, NH PREPARED FOR: NORMAN VETTER, INC. APRIL 2019



MISTALLD BY EXCAMING AN OPEN TRENCH WITH SOC SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4-FT. FER THAN 4-FT REQUIRE THE LYSE OF A TRENCH BOX. 5 SHALL BE AS SPECIFED ON THE DESIGN FLAM. MAY EE CAMITED FOR REPROPOLED CONCRETE PHPE.

### WATER PIPE TRENCH INSTALLATION DETAIL



MINIM AGA	un Thru Inst un	ist blo Disture	OCK BEAF SED MATE	RIAL (S	A REO'D
PIPE	90 BEND	TEE	PLUG	45 BEND	221/2"& SMALLER
6"	5	4	3	2	2
8"	10	8	6	6	3
12"	24	18	8	12	8

NOTE: SIZE OF THRUST BLOCKS MAY BE INCREASED BY THE ENGINEER TO MEET SOIL CONDITIONS FOUND DURING CONSTRUCTION.

#### WATER MAIN THRUST BLOCK DETAILS

NOT TO SCALE

					DI	JCTILE	IRON	MECH	ANICAL	RETR	AINED	LENGT	H (FE	ET)						
PIPE		BENDS										DEAD END								
DIAMETER	11 1/4' 22 1/2'					45° 90°						DEAD END								
(INCHES)	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi
2"	0	0	1	1	0	1	1	1	1	1	2	3	2	4	5	7	4	8	12	17
6"	0	0	1	1	1	1	2	2	1	2	3	4	3	5	8	10	6	12	18	23
8"	0	1	1	1	1	1	2	3	1	3	4	6	3	7	10	13	8	15	23	31
10"	0	1	1	2	1	2	2	3	2	3	5	7	4	8	12	16	9	19	28	37
12"	0	1	1	2	1	2	3	4	2	4	6	8	5	9	14	19	11	22	33	44
	TEE*				REDUCER															
		SAME	SIZE		ONE SIZE SMALLER			ONE SIZE SMALLER TWO SIZE SMALLER				LER								
	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi				
2"	1	1	1	1	1	1	1	1	1	3	4	5	-	-	-	-				
6"	1	1	1	4	1	1	1	1	3	6	9	12	4	8	12	16				
8"	1	1	3	11	1	1	1	1	3	6	10	13	6	11	17	22				
10"	1	1	8	17	1	1	1	6	3	6	10	13	6	11	17	23				
12"	1	2	13	24	1	1	4	13	5	11	16	22	6	12	18	23				

\* BASED ON A MINIMUM ATTACHED PIPE ALONG RUN (Lr) = 5 FEET

# MECHANICAL RESTRAINED LENGTH SCHEDULE

NOT TO SCALE

NOTES:

1. PIPE IS BURIED TO A DEPTH OF 6 FEET WITH A MINIMUM OF 4 INCHES OF COMPACTED GRANULAR MATERIAL UNDER THE PIPE TO THE SPRING LINE OF THE PIPE.

2. THE EXISTING SOIL IS POORLY GRADED GRAVEL AND GRAVEL SAND MIXTURE WITH LITTLE TO NO FIRES.

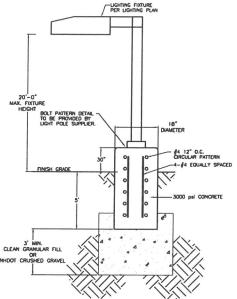
3. ALL CALCULATIONS ARE BASED ON A FACTOR OF SAFETY OF 1.5 TO 1.

4. ALL CALCULATIONS ARE BASED ON THE "RESTRAINED LENGTH CALCULATION PROGRAM" BY EBASH IRON, INC., RELEASE 3.1.

FILE NO. 210 PLAN NO. C-2917 DWG. NO. 18120/SP-2

F.B. NO.

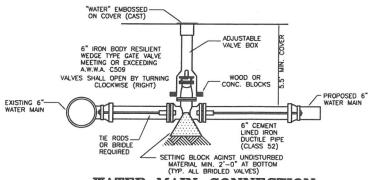




#### POLE MOUNTED LIGHT DETAIL

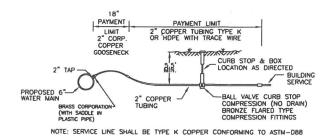
NOT TO SCALE

THE LIGTH POLE BASES CAN BE PRECAST, WITH COORDINATION WITH THE LIGHTING FIXTURE MANUFACTURE FOR BOLT PATTERN.



# WATER MAIN CONNECTION

NOT TO SCALE



#### TYPICAL DOMESTIC SERVICE CONNECTION

NOT TO SCALE

#### CIVIL ENGINEERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION.
SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT
BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE
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THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



05/20/2016 - REVISED PLAN PER ROCHESTER TRG COMMEN 09/11/2018 - REMOVE FIRE CONNECTION DETAIL

#### GENERAL UTILITY NOTES

- CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888 344-7233) 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- CURSING-CION.

  ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND ELEVATIONS.

  THESE PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF THE SURVEY. THE ASSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. FROM THIS PLAN, BUT IN EXISTENCE IS NOT INTENDED OR IMPLIED.

- THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. FROM THIS PLAN, BUT IN EXISTENCE IS NOT INTENDED OR IMPLIED.

  ANY UTILITY POLES THAT NEED TO BE RELOCATED SHALL BE COORDINATED WITH EVERSOURCE OR VERIZON, WHOM EVER HAS CONTROL OVER THEM.

  PROPOSED UTILITIES ARE TO BE UNDERGROUND. COORDINATE LOCATION OF UNDERGROUND UTILITIES AND TRANSFORMER PADS WITH PSHIM AND OTHER PETTINENT UTILITY COMPANIES.

  WATER AND SEWER LINES SHALL BE INSTALLED A MINIMUM OF 10-FT APART HORIZONTALLY.

  WHERE SEWER AND WATER LINES MUST GROSS, SEWER PIPE JOINTS SHALL BE LOCATED A MINIMUM 9-FT HORIZONTALLY FROM THE WATER LINE AND A VERTICAL SEPARATION OF 18-INCHES SHALL BE MINIMUM 9-FT HORIZONTALLY FROM THE WATER LINE AND A VERTICAL SEPARATION OF 18-INCHES SHALL BE MINIMUM 9-FT SEWER AND AT 1-1/2 TIMES WORKING PRESSURE FOR ALL FORCE MAINS.

  SEWER PIPE JOINTS SHALL BE TESTED WITH ZERO LEXANCE AT 29 POUNDS PER SQUARE INCH FOR GRANTY SEWER AND AT 1-1/2 TIMES WORKING PRESSURE FOR ALL FORCE MAINS.

  WATER LINE CONSTRUCTIONS.

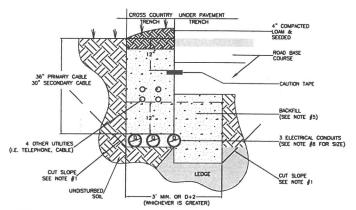
  A) ALL PROPOSED WATER CILL INE MATERIAL USED SHALL MEET MOCHESTER WATER DEPARTMENT AND ROCHESTER FINISHED DEPARTMENT SPECIFICATIONS. WATER LINES SHALL BE AWAYA. C 151, CLASS 52, DOUBLE THICKNESS CEMENT LINED, SEAL COATED IN ACCORDANCE WITH A.W.W.A. C 104 AND, DUCTILE IRON PIPE.

  B.) PROPOSED WATER CATE VALVES SHALL BE MANUFACTURED BY KENNEDY OF AMERICAN FLOW CONTROL, RESILIENT SEAT TYPE.

  C) ALL WATER LINES SHALL BE BURIED A MINIMUM OF 5'.
- C) ALL MATE LINES SHALL BE BURIED A MINIMUM OF 5'.

  (), IT S' OF COVER IS NOT AVAILABLE MATER LINE SHALL BE INSULATED AS SHOWN IN THE "SHALLOW COVER TRENCH LIFERIA FOR INSULATED WATER PIER.
- E.) FITTINGS:

  D. PRESSURE RATING OF 250 PSI
  D. FLANCE SHALL BE ANS B16.1, CLASS 152
  C. CLAST 11MED AND SEAL COATED
  FOR SHALL BE FURNISHED
  FOR SHALL BE FURNISHE



ITES:

ALL NON-METHALIC CONDUST AND FISTINGS SHALL BE ELECTRICAL GRADE, SCHEDULE 40 PMC, AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF ALL NON-METHALIC CONDUST AND STREET.

ALL NON-METHALIC CONDUST AND FISTINGS SHALL BE ELECTRICAL GRADE, SCHEDULE AND PMC CONDUST AND THANKS THE PROPER RICHA AND UL MARGINGS WILL NOT BE ACCOUNTED. ALL STEEL CONDUSTS SHALL DO OFFICIAL AND 20 AND DE REGO CALMANZED STEEL. ALL PPC JOHTS MUST BE CONDUSTED. STEEL STITINGS SHALL BE STALLD WITH A MINIMAL AROUS OF 36 MONES FOR PROMMET CARLES AND 24 MONES FOR SECONDAYS CARLES MADER SHALL BE STALLD WITH A MINIMAL AROUS OF 36 MONES FOR PROMMET CARLES AND 24 MONES FOR SECONDAYS CARLES ALL STEEL SWEEPS WITHOUT STEEL SWEEPS WITH A MINIMAL AROUS OF 36 MONES FOR PROMMET CARLES AND 24 MONES FOR SECONDAYS CARLES AND 25 MONES SHALL BEEN AND 25 MONES FOR PROMMET CARLES AND 25 MONES FOR PROMMET CARLES AND 25 MONES FOR PROMISE OF THE OPINION OF THE PSHIPH AS IN-CONTROL OPINION OPIN

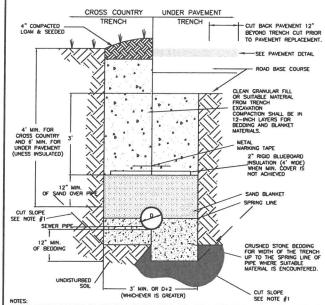
- OF PRICES LIMPS, RODGS, DERRIS, MOR RUBBISH. ORIGINE MITTERA, SMALL, NOT BE USED AS BACGILL. BINCELL SHALL BE THROUGHEY COMPACTED IN 8—RODG LATER, SMALL BETTER ORIGINATED TO MESTAL COBLE. COMPACTED IN 8—RODG LATER OF 700 POINTS OF PLAIL, MIST SE BISSTALLED IN THE CONTROL PROPERTY BY THE PROPER

#### **ELECTRICAL & UNDERGROUND UTILITY** TRENCH INSTALLATION DETAIL

NOT TO SCALE

UTILITY DETAILS TAX MAP 117, LOT 2-8 53 ALLEN STREET ROCHESTER, NH PREPARED FOR: NORMAN VETTER, INC.

AS SHOWN APRIL 2019



NOTES:

SE NOTE #1

I PIPES MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF

4-FT. INTALLATIONS DEEPER THAN 4-FT REQUIRE THE USE OF A TRENCH BOX.

2. PIPE MATERIAL SHALL BE AS SPECIFIED ON THE DESION PLAN.

3. SAND BLANKET MAY BE OMITTED FOR REINFORCED CONCRETE PIPE.

4. WHERE SHEEPING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, THE SHEETING SHALL BE
CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN ONE FOOT ABOVE THE TOP OF THE PIPE AND AT

LEAST 3 FEET BELOW PRIMADED GRADE.

5. THE PIPES SAND BLANKET MATERIAL SHALL BE GRADED SHOP FEET FROM ORGANIC MATERIALS, GRADED SUCH THAT

100 PERCENT PASSES M. PINCH SIEVE WID A MAXIMUM OF 15 PERCENT PASSES A #200 SEVE.

6. THEIGH BARS SCAVATED FROM THE TRENCH DURING CONSTRUCTION, EXCLUDING:

FILE NO. 210

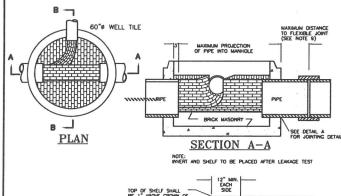
PLAN NO. C-2917 DWG. NO. 18120/SP-2

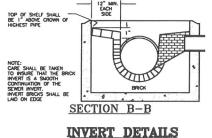
- EXCAVATED FROM THE TRENCH DURING CONSTRUCTI
  DEBYS;
  PIECES OF PAVEMENT;
  ORGANIC MATTER;
  TOP SOIL;
  WET OR SOIT MUCK;
  PEAT OR CLAY;
  EXCAVATED LEDGE MATERIAL;
  ROCKS OVER 6 INCHES IN THE LARGEST DIMENSION; AND
  ANY MATERIAL NOT APPROVED BY THE ENGINEER.

#### SEWER PIPE TRENCH INSTALLATION DETAIL

NOT TO SCALE

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE CECTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.





GROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL UNDERLAYMENT OF WIRTS AND SHEET SHALL CONSIST OF BRICK MISKINGS COMPLETED WITH ASTIN CZZ. WIRETS AND SHELVES SHALL NOT BE INSTALLED WITH AFTER SHOCK PRODUCTS AND CONSTRUCTS. WITH ASTIN CZZ. WIRETS AND SHELVES SHALL NOT BE INSTALLED WITH AFTER SHOCK POR SHEET SHALL BE OF HEAVY DUTY DESIGN AND PRODUCE A 30-INCH CENTER OF SHALL BE OF HEAVY DUTY DESIGN AND PRODUCE A 30-INCH CENTER OF SHAPPEN COLORS.

SHEET SHAHLDE FRAME AND COVER. PRAMERY 32" DJ. MANHOLE FRAME AND COVER SHALL BE PLANELY CXST INTO THE CENTER OF THE MANHOLE PRODUCT!! CONTROLLED WITH A 15-INCH CENTER OF THE MANHOLE CONTROLLED STORE (12" IN LEDGE) FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTIN C33: 1000X PASSING 10" OF 37.4" GRUSHED STONE (12" IN LEDGE) FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTIN C33: 1000X PASSING 1.4" INCH SCREEN 1000X PASSING 1.4" I

USED, I PIPE INSTALLATION: THE PIPE SHALL BE HANDLED, PLACED, AND JOINTED IN ACCORDANCE WITH INSTALLATION CHIDES OF THE APPROPRIATE MANUFACTURER IT SHALL BE CAREFULLY BEDOED ON A 4 HIGH LUTER OF GRUSSED STONE AS SECURED IN IN INTE 10. APPROPRIATE MANUFACTURE AND A FEBRUARY OF THE PIPE SHALL BE LAD AT A CONTINUOUS AND CONSTANT GRADE FROM THE STREET SEVER CONNECTION TO THE HOUSE FOUNDATION AT A GRADE OF NOT LESS THAN 1/8 HIGH PER FOOT PIPE JOINTS MUST BE MADE UNE DAY CONTINUOUS AND LOD BEAVER THE PER FOOT PIPE JOINTS MUST BE MADE UNDER ONLY CONTINUOUS. AND LOD BEAVER THE PER SHALL BE TAKED FOR YOUR CONTINUOUS AND LOD BEAVER THE PER SHALL BE TAKED TO DEWARE THE THEORY. THE COMPLETED HOUSE SEWER SHALL BE SUBJECTED TO A LEAKAGE TEST IN ANY OF THE FOLLOWING MANNERS (PRIOR TO BACKETING).

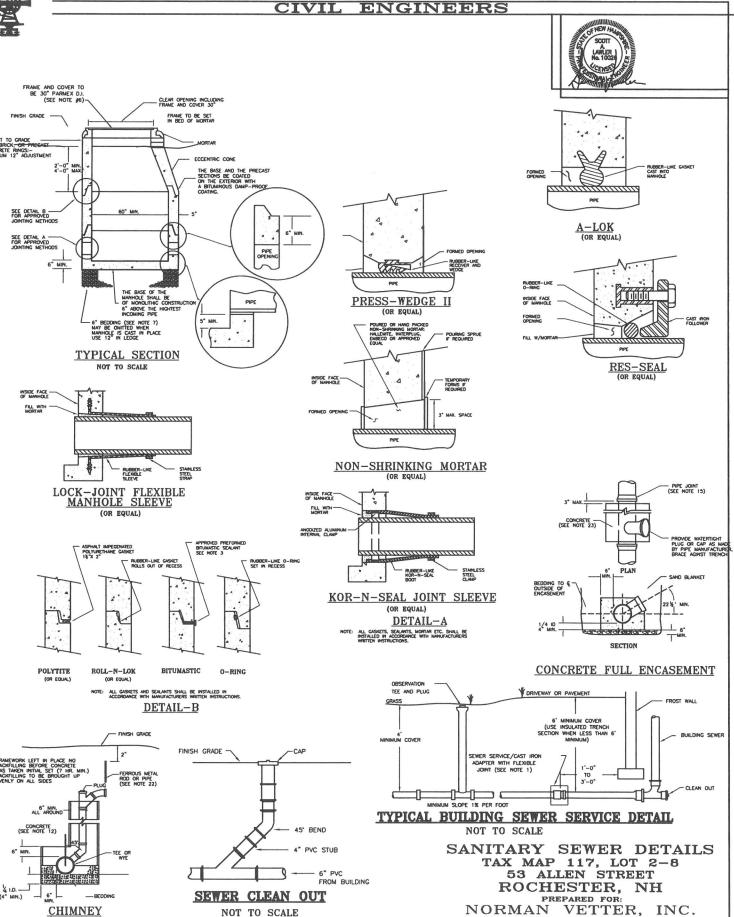
AND STRING. THE COMPLETE HOUSE SEVER SHALL BE SUBJECTED TO A LEAFAGE TEST IN ANY OF THE FOLLOWING MANNERS (PRIOR TO BAGGYILING).

A MI OBSERVATION TEE SHALL BE INSTALLED AS SHOWN AND, WHEN READY FOR TESTING, AN INFLATABLE BLADDER OR PLUG SHALL BE RECEITED US TO THE OPENING IN THE TEE AFTER INFLATION, MARER SHALL BE INSTRUCTED IN THE OPENING IN THE TEE AFTER INFLATION, MARER SHALL BE INSTRUCTED IN THE OPENING IN THE TEE AFTER INFLATION, MARER SHALL BE INSTRUCTED IN THE OPENING IN THE TEE AFTER INFLATION, MARER SHALL BE INSTRUCTED IN THE OPENING IN THE TEE AFTER INFLATION, MARER SHALL BE INSTRUCTED IN THE OPENING IN THE OPENING IN THE TEE AFTER INFLATION, MARER SHALL BE INSTRUCTED IN THE OPENING IN THE O

MORTAR USED IN MANHOLE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:
MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT HYDRATED LINE TIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE AS SHOWN BELOW:

CEMENT SHALL BE TYPE II PORTLAND CEMENT THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C150/C150M STANDARD IN EFFECT AT THE TIME THE CEMENT WAS MANUFACTURED. HYDRAYED LIME SHALL BE TYPE S THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C207 STANDARD IN EFFECT AT THE TIME THE HYDRAYED LIME WAS PROCESSED. SAND SHALL CONSIST OF INERT NATURAL SAND THAT IS CERTIFIED BY ITS SUPPLIER AS CONFORMING TO TH ASTM C33 STANDARD IN EFFECT AT THE TIME THE SAND IS PROCESSED BY "STANDARD SPECIFICATIONS FOR CONCRETE." SINE ACCRECATES"





APRIL 2019

#### PERMANENT VEGETATION:

- SITE PREPARATION:

  1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.

  2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANN-CHORING.

  3. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.

  4. ON SUPES 4:1 OR STEPER. THE FIRM, PREPARATION SHALL INCLUDE CREATING HORIZONTIAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

- RUNOFF.

  SEEDED DEPENDATION:

  1. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4

  INCHES WITH A DISC. SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, THE SEEDEDED WHEREVER FEASIBLE.

  REMOVE FROM THE SURFACE ALL STORES ZINCHES OR LABBUT CLAY, AND SLIT SOILS SHALL BE ROLLED TO FIRM THE SEEDEDED WHEREVER FEASIBLE.

  REMOVE FROM THE SURFACE ALL STORES ZINCHES OR LABGER IN ANY DIMENSION. REMOVE ALL OTHER DEBTHS, SUCH AS MIRE, CABLE, TREE ROOTS, CONCRETE CLOSS, LUMPS, TRASH

  AN INSPECT SEEDEDED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED. THE AREA MUST BE TILLED AND FIRMED AS ABOVE.

  WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LINE AND SEED.

  FAPPLUBELE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE COMPANY OF THE SECONDARY OF THE SECONDARY OF THE SECONDARY OF THE SHALL BE RESTRICTED TO LINE, WOOD ASH OR LOW PROSPHATE AND SOW RELEASE.

  SHALL BE RESTRICTED TO LINE, WOOD ASH OR LOW PROSPHATE AND SOW RELEASE.

  NITROCEN VARIETIES, LINLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL ON VARIABLE STEES, OR WHERE THINKS IS CRITICAL FERTILIZER AND LINESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)\*
\*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)° °LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

FILE NO. 210

P.B. NO.

PLAN NO. C-2917 DWG. NO. 18120/SP-2

- HYDROSSEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDED AS SPECIFED ABOVE OR BY HAND RANGE TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.

  SLOPES BUST BE IN STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY. BY

- MANTIANACE ROUBENESS:

  1. PERMANENT SECRET ROUBENESS:

  1. PERMANENT SECRED AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.

  2. SEEDED AREAS SHALL BE MOVED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF THYE OF GRASS COVER.

  3. BASED ON INSPECTION, AREAS SHALL BE RESECTED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.

  4. AT A MINIMUM 85% OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.

  5. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESECTEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERFOR OF VEGETATION ESTABLISHMENT.

#### PERMANENT VEGETATION SEEDING RECOMMENDATIONS

USE	MIXTURE	SPECIES	LBS./ACRE	LBS./ 1,000-SF	
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95	
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95	
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY RECREATION SITES	A	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95	
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL ESSENTIAL FOR GOOD TURF)	F	CREEPING RED FESCUE KENTUCKY BLUEGRASS TOTAL	50 50 100	1.15 1.15 2.30	

SOURCES:

1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES 4-2 AND 4-3 INICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS

#### TEMPORARY VEGETATION:

- SPECIFICATIONS: SITE PREPARATION: 1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND

- INSTALL NEEDED ERGISION AND SEUBRATI CURITING INCOMES SOON THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
  RUNDRY SHALL BE DIVERTED FROM THE SEEDBED AREA.
  ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR O THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.
- PERPENDICULAR O THE DIRECTION OF THE SLOPE TO CATCH SELD AND RELINCE TRUTHS.

  ESCRIPT. PERPENDICULAR O THE ORIGINATION OF THE SLOPE TO CATCH SELD AND TREASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.

  STRIPT OF THE SOLI HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2

  WHERE THE SOLI HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2

  J. F. APPLICABLE, FERTILIZER AND ORGANIC SOIL AMERIDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.

  A PAPIL FUNDESTONE AND FERTILIZER AND ORGANIC SOIL AMERIDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.

  A PAPIL FUNDESTONE AND FERTILIZER AND ORGANIC SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LINE, WOOD ASH OF LOW PHOSPHATE AND SLOW RELEASE NITROCEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE, IF SOIL TESTING IS NOT FEASIBLE ON SHALL OR VARABLE SITES, OR WHERE THING IS CRITICAL PERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)\*
\*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)\*
\*LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

# SEEDING: 1. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDRO SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LIET ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED CONTROL OF THE SEEDING RATES MUST BE INCREASED TO SEED SEEDING TO SEED THE SEEDING RATES MUST BE INCREASED TO SEEDING RATES MUST BE INCREASED. 2. TEMPORARY SEED SHALL THPOLALY OCCUP PRIOR TO SEPTEMBER 1S. 3. AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL GIRC OVERED WITH AY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCH, BE CONTROL TO THE NISSAN, VOL 3. 4. VECETATED GROWTH COVERNO AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 1S. IF THIS COMDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

- PERIOD.

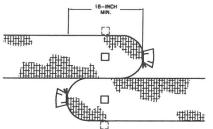
  BASED ON INSPECTION, AREAS SHALL BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS. IF
  IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION
  IF ANY EMPORACE OF ERROSON OF SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL
  BE RESEEDED, WITH OTHER TEMPORARY MEASURES (IE. MUICH, ETC.) USED TO PROVIDE EROSION PROTECTION
  DURING THE PERIOD OF VECETATION ESTABLISHEDT.

#### TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

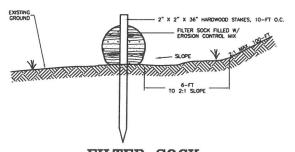
SPECIES	PER ACRE BUSHELS (BU) OR POUNDS (LBS.)	PER 1,000-SF	REMARKS
WINTER RYE	2.5 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU OR 80 LBS.	2.0 LBS.	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYE GRASS	40 LBS.	1.0 LB.	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 13, COVER THE SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL TYE GRASS	30 LBS.	0.7 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.

MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

#### CIVIL ENGINEERS



### FILTER SOCK CONNECTION PLAN VIEW



## FILTER SOCK CROSS-SECTION

- CONTINUOUS CONTAINED BERM (FILTER SOCK ALTERNATIVE):

  1. AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTINUED BERM (OR "FILTER SOCK") CAN BE AN EFFECTIVE SEDIMENT BARRIER AS IT ADDS CONTINUOUS CONTINUED BERM (OR "FILTER SOCK") CONTINUED MIX.

  2. IN THE EVENT THAT USE OF CONTINUOUS CONTINUED BERM IS DESIRED, THE PRODUCT SELECTED SHOULD BE REVIEWED AND APPROVED BY THE DESIGN DEMONER.

  3. INSTALLATION OF CONTINUOUS CONTINUED BERMS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MANUFACTURER.
- MAINTENANCE REQUIREMENTS:
  1. FILTER SOCK MAINTENANCE SHALL FOLLOW THE SAME SCHEDULE AS EROSION CONTROL MIX BERNS.

- CONSTRUCTION SPECIFICATIONS:

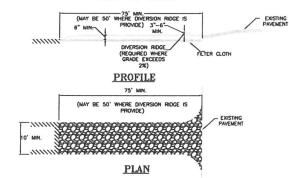
  1. COMPOSITION OF THE EROSION CONTROL MIX SHALL EITHER BE THE SAME AS EROSION CONTROL MIX BERM MATERAL OR AS SPECIFIED BY THE FILTER SOCK MANUFACTURER.

  2. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.

  3. If MAY BE NECESSARY TO CLUT TALL GRASSES AND WOODY VECETATION TO AVOID CREATING VOIDS AND BRODGES IN THE BARRIER THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLUCES OR PLANT STEMS.
- FILTER SOCK DIAMETER (HEIGHT) SHALL BE PER THE MANUFACTURER RECOMMENDATION FOR THE AREA OF

#### CONTINUOUS CONTAINED BERM "FILTER SOCK" DETAIL

NOT TO SCALE



#### TEMPORARY CONSTRUCTION EXIT

#### NOT TO SCALE

- MAINTENANCE REQUIREMENTS:

  1. WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHALL BE REMOVED ALONG WITH THE COLLECTED SOIL MATERIAL, RECRAUGED ON SITE, AND STABILIZED. THE ENTRANCE SHALL TEN BE RECONSTRUCTED.

  2. THE CONTRACTOR SHALL SWEEP THE PAVEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE ADACENT PAVEMENT OF TRAVELED WAY.

  3. WHEN WHELE WISSHIRG IS REQUIRED, IT SHALL BE CONDUCTED ON AN AREA STABILIZED WITH AGORGGAIC, WHICH DRAWS INTO AN APPROVED SEGMENT—TRAPPHING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAWS, DITCHES, OF WATERWAYS.

- REDUCED TO 50 FEET IF A 3-INCH TO 8-INCH BERM IS INSTALLED AT THE ENTRANCE OF THE PROLECT STE.

  3. THE PAD SHALL BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEYER IS GREATER.

  4. THE PAD SHALL SLOPE AWAY FRON THE ENSTING ROADWAY.

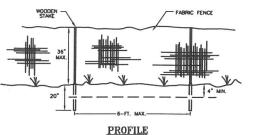
  5. THE PAD SHALL BE AT LEAST 6 INCHES THICK.

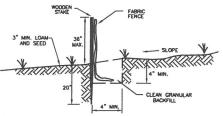
  6. THE PAD SHALL BE AT LEAST 6 INCHES THICK.

  7. THE GEOTEM FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.

  7. THE GEOTEM SHALL BE ANALYMENT OF REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN STATE OF THE STONE SHALL BE THAT CROSSES THE LOCATION OF THE STONE PAD SHALL BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.







#### CROSS-SECTION

- MAINTENANCE REQUIREMENTS:

  FINCES SHALL BE INSPECTED AND MANTAMED IMMEDIATELY AFTER EACH PAWAYAL AND AT LEAST DALLY DURING PROLONGED

  FINCES SHALL BE INSPECTED AND MANTAMED IMMEDIATELY AFTER EACH PAWAYAL AND AT LEAST DALLY DURING PROLONGED

  SEDMENT DEPOSITION SHALL BE REMOVED. AT A MINIMUM, WHEN DEPOSITION ACCUMALATES TO ONE-HALF THE RECORT OF THE
  FENCE, AND MOVED TO AN APPROPRIATE LOCATION SO THE SEDMENT IS NOT READILY TRANSPORTED BACK TOWARD THE SELF FENCE,
  AND SOCIETY OF REPORCED THE CONTROL OF THE DEPOSIT OF REPOSITION OF SEDMENTATION BEST IF FENCE.

  AND SOCIETY OF REPORCED THE CONTROL OF THE DEPOSIT OF THE SEDMENT, OR BAPOUNDING OF LARGE VILLAGES OF MATER

  SHALL THE PASSING OIL AS SELF FENCE DECOMPOSE OR BECOME REPOSITION PRIOR TO THE EXPOSITED USABLE UPE AND
  THE BARRIER STALL IS NECESSARY; THE FARBIC SHALL BE REPLACED PROMPTLY.

  ANY SCHAMENT DEPOSITS REMARKING IN PLACE ATTER THE SALL FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO

  THE THERE IS EVIDENCE OF END FLOW ON PROPERTY INSTALLED BARRIERS, EXTEND BARRIERS UPHILL OR CONSIDER REPLACING THEM
  WITH OTHER MEASURES, SUCH AS TEMPORETY DIVERSIONS AND SECREMENT THANS.

  SALL TENCES MAYER A LESTILL GUIL OF ONE SEASON, ON LONGER CONSTRUCTION PROJECTS, SILT FENCE SHALL BE REPARED
  PERSOCLALLY AS REQUIRED TO MAINTAIN PETCHONERS.

# WITH OTHER MEASURES, SUCH AS TEMPORATE DIVERSIONS AND SEGMENT TRAPS. SILT FERCES MAYA L REQUIRED TO MAINTAIN EFFECTIVENESS. SILT FERCES MAYA LESTILL LIFE OF ONE SEASON, ON LONGER CONSTRUCTION PROJECTS, SILT FERCE SMALL BE REPARED PERSONAL PERSONAL DELIVERATION OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WHITE IN A CHANGE OF CHANGE OF THE FENCE. SCIDILL BRARGERS SMALL BE INSTALLED PROR TO CONCENTRATION OF WHITE IN A CHANGE OF CHANGE WAY ABOVE THE FENCE. SCIDILL BRARGERS SMALL BE INSTALLED PROR TO CONCENTRATION OF WHITE IN A CHANGE WAY ABOVE THE FENCE. SCIDILL BRARGERS SMALL BE INSTALLED PROR TO CONCENTRATION OF WHITE IN A CHANGE WAY ABOVE THE FENCE SMALL BE LIST THAN 1 ACRE PER 100 LINEAR FEET OF FENCE; THE MAJADIAN CONTRIBUTING DRAINGE AREA ABOVE THE FENCE SMALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FENCE; THE MAJADIAN SLOPE ABOVE THE FENCE SMALL BE LIST THAN 1 ACRE PER 100 LINEAR FEET OF FENCE; THE MAJADIAN SLOPE ABOVE THE FENCE SMALL BE LIST THAN 1 ACRE PER 100 LINEAR FEET OF FENCE; THE MAJADIAN SLOPE ABOVE THE FENCE SMALL BE LIST THAN 1 ACRE PER 100 LINEAR FEET OF FENCE; THE MAJADIAN SLOPE ABOVE THE FENCE SMALL BE LIST THAN 1 ACRE PER 100 LINEAR FEET OF FENCE; THE MAJADIAN SLOPE ABOVE THE FENCE SMALL BE LIST THAN 1 ACRE PER 100 LINEAR FEET OF FENCE; THE MAJADIAN SLOPE ABOVE THE FENCE SMALL BE LIST THAN 1 ACRE PER 100 LINEAR FEET OF FENCE; THE MAJADIAN SLOPE ABOVE THE FENCE SMALL BE LIST THAN 1 A TERMOL EXCAMATED INTO THE FERCE SMALL BE EMBEDDED WITH A MINIMAL PORT OF THE FENCE SMALL BE CHEEDED WITH A MINIMAL PORT OF THE FENCE SMALL BE CHEEDED WITH A MINIMAL PROTOCOLD TARRE; THE FEAR FERCE SMALL BE EMBEDDED WITH A MINIMAL PROTOCOLD TARRE; THE SOLD SMALL BE CHEEDED WITH A MINIMAL PROTOCOLD TARRE; THE SOLD SMALL BE CHEEDED WITH A MINIMAL PROTOCOLD TARRE; THE SOLD SMALL BE CHEEDED WITH A MINIMAL PROTOCOLD TARRE; THE SOLD SMALL BE CHEEDED WITH A MINIMAL PROTOCOLD TARRE; THE PLATE THE SMALL BE CHEEDED WITH A MINIMAL PROTOCOLD TARRE; THE PLATE THE SMALL BE CHEEDED WITH A MINIMAL PROTOCOL

#### SILTATION CONTROL FENCE DETAIL NOT TO SCALE

EROSION CONTROL DETAILS TAX MAP 117, LOT 2-8 53 ALLEN STREET ROCHESTER, NH PREPARED FOR: NORMAN VETTER, INC.

APRIL 2019

