RECEIVED
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By

NONRESIDENTIAL SITE PLAN APPLICATION

City of Rochester, New Hampshire

Date: 11-10-20 Is a conditional use needed? Yes:____ No: X Unclear:____
(If so, we encourage you to submit an application as soon as possible.)

Property information

Tax map #: 246; Lot #('s): 22; Zoning district: Highway Commercial (HC)

Property address/location: Washington Street

Name of project (if applicable): Homeless Center for Strafford County

Size of site: 19.24 acres; overlay zoning district(s)? Wetland

Property owner

Name (include name of individual): Homeless Center For Strafford County

Mailing address: 9 Isinglass Drive P.O. Box 7306, Rochester NH 03839-7306

Telephone #: 603-332-3065 Email: Execdirshelter@gmail.com

Applicant/developer (if different from property owner)

Name (include name of individual): Same

Mailing address: _____

Telephone #: _____ Email: _____

Engineer/designer

Name (include name of individual): Kenneth A Berry, PE, LLS
Christopher R. Berry
Berry Surveying & Engineering

Mailing address: 335 Second Crown Point Rd, Barrington, NH 03825

Telephone #: 603-332-2863 Fax #: _____

Email address: K.Berry@BerrySurveying.com
crberry@metrocast.net Professional license #: 14243

Proposed activity (check all that apply)

New building(s): X Site development (other structures, parking, utilities, etc.): X

Addition(s) onto existing building(s): _____ Demolition: _____ Change of use: _____

Describe proposed activity/use: Applicant is proposing to construct a 10 temporary housing unit homeless shelter with relating grading, utilities and site development

Describe existing conditions/use (vacant land?): Vacant lot

Utility information

City water? yes X no ___; How far is City water from the site? Washington Street

City sewer? yes ___ no x; How far is City sewer from the site? ___

If City water, what are the estimated total daily needs? 3,040 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? Porous Asphalt Pavement

Building information

Type of building(s): Homeless shelter

Building height: 25.5' avg @ roof Finished floor elevation: 253.25

Other information

parking spaces: existing: 0 total proposed: 15; Are there pertinent covenants? N/A

Number of cubic yards of earth being removed from the site Fill only

Number of existing employees: 0; number of proposed employees total: 2

Check any that are proposed: variance N/A; special exception N/A; conditional use N/A

Wetlands: Is any fill proposed? N/A; area to be filled: N/A; buffer impact? N/A

Proposed *post-development* disposition of site (should total 100%)

	Square footage	% overall site
Building footprint(s) – give for each building	2,680	0.32
Parking and vehicle circulation	7,837	0.94
Planted/landscaped areas (excluding drainage)	34,455	4.11
Natural/undisturbed areas (excluding wetlands)	566,265	67.53
Wetlands	226,986	27.10
Other – drainage structures, outside storage, etc.	0	0
		100%

Comments

Please feel free to add any comments, additional information, or requests for waivers here:

_____

_____

Submission of application

This application must be signed by the property owner, applicant/developer (if different from property owner), *and/or* the agent.

I(we) hereby submit this Site Plan application to the City of Rochester Planning Board pursuant to the City of Rochester Site Plan Regulations and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant/developer (if different from property owner)/as agent, I attest that I am duly authorized to act in this capacity.

Signature of property owner: Tracy L. Hardekopf - E.D.

Date: 11/9/2020

Signature of applicant/developer: _____

Date: _____

Signature of agent: _____

Date: 11-10-2020

Authorization to enter subject property

I hereby authorize members of the Rochester Planning Board, Zoning Board of Adjustment, Conservation Commission, Planning Department, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections during the application phase, review phase, post-approval phase, construction phase, and occupancy phase. This authorization applies specifically to those particular individuals legitimately involved in evaluating, reviewing, or inspecting this specific application/project. It is understood that these individuals must use all reasonable care, courtesy, and diligence when entering the property.

Signature of property owner: Tracy L. Hardekopf - E.D.

Date: 11/9/2020

BERRY SURVEYING & ENGINEERING
335 Second Crown Point Road
Barrington, NH 03825
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crberry@metrocast.net

November 10, 2020

City of Rochester Planning Board
Attention: Chief Planner, Seth Creighton
33 Wakefield Street
Rochester, NH 03867

Re: Homeless Center for Strafford County (HCSC)
Route 202 / Washington Street & Chesley Hill Road
Rochester Tax Map 246, Lot 22

Mr. Creighton,

On behalf of our client, HCSC, Berry Surveying & Engineering (BS&E) is submitting for TRG review a proposed homeless shelter within the Highway Commercial (HC) Zone located at 202 Washington Street (US Route 202).

Background and General Narrative:

HCSC has purchased the property on the corner of Chesley Hill Road and Washington Street (Route 202) the property is located within the HC Zone where the Shelter use is being proposed. BS&E has completed a full topographic survey and John P. Hayes, CWS, CSS has delineated wetlands on site in addition to providing soils data on an as needed basis. The Axe Handle Brook is located on site and has a corresponding flood zone, with an obvious wetlands complex surrounding it. Axe Handle Brook has a 100' local buffer protection, with the surrounding wetlands being afforded a 50' setback requirement. There is a small tributary which crosses Washington Street, with surrounding wetlands which also require a 50' setback. There is a small wetland located near the municipal easement on the property in south west corner. This wetland is likely man made during the construction and maintenance of the easement and is under a half an acre in size. This area was evaluated by John Hayes and determined not to be a vernal pool based on the contributing topography and underlying soils conditions not supporting ponding for long periods of time.

There is a flatter area onsite with a small looping entrance onto and off Washington Street. Test holes on site as well as geotechnical borings have revealed that this area is comprised of general fill materials with varying depths. Due to this, the design uses the flat area for access and potential parking only. Due to the curvature and vertical alignment of Washington Street, the proposed driveway was chosen as the safest location to enter the site. It

offers 400 feet of sight distance in both directions (NHDOT Standard). This location is approximately 375 linear feet from the intersection of Chesley Hill Road.

The Proposal:

The proposal is to construction a 2,584 SF building foot print that contains two stories for the purposes of temporarily housing up to 40 individuals. This maximum of 40 individuals will be housed within 10 temporary housing units. These are often times families housed in these units. The building design has an approximate total of 5,168 SF plus a full walk out basement for storage and mechanical items. The current location for this use and facility is located at Waste Management, which is slated for demolition in 2021 due to an expansion taking place on Rochester Neck Road. An operation plan will be submitted for review for a full understanding of the day to day operations of the facility.

In general the site has one or two employees on site during critical hours only and the residents need very little parking. There is a large reliance on buses, taxis and other public transit to and from school or work. The operation plan includes providing shuttling services to and from the Coast Bus Stop up the street from the project site. The use of "Assisted Living" was used in the parking calculations whereas this seemed to be the closest parking land use code. A conservative assumption was made that each temporary housing unit will contain two driving adults/room. Using the Assisted Living Use code, it is determined that 15 parking spaces are required. Based on the current HCSC parking demands, the client feels this is an adequate number of parking spaces.

Municipal water will be provided to the site and onsite septic facilities will be required. A NHDES Sewage Disposal permit will be required. Stormwater will be handled using standard methodology for detention, volume and treatment standards prescribed in Chapter 218. Porous asphalt pavement will provide treatment and attenuation of post construction stormwater flows. A NHDOT permit is required and has been applied for. A NOI is required for this project and will be applied for.

Several modifications to the project site have occurred since TRG submission. The most notable change is the mirroring of the site in order to save construction costs. By placing the building along the eastern side of the fill slope, the existing slope can be used to provide a basement walkout. This building placement also is more conducive for the construction of an effluent disposal area (EDA). This allows the prior building location to be filled and used as recreational space. From a stormwater perspective, the site has been modified from utilizing a series of rain gardens and level spreaders to a single porous asphalt pavement system with infiltration. The infiltration provided from the porous asphalt pavement allows the post-construction stormwater peak rate and runoff volume for all events to be less than the existing condition. Stormwater management taking place under the pavement also creates less overall disturbance by reducing the need for above ground stormwater best management practices. There is one lamp down lit proposed and it will be shielded. There will be residential style on the lights

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on the building. A street tree buffer will be placed along the right-of-way, but allow architectural features to show through. Evergreens will be placed along the right-of-way for the recreation area.

Respectfully submitted,
BERRY SURVEYING & ENGINEERING

Kevin, R. Poulin, EIT
Project Engineer

Christopher R. Berry, SIT
Principal, President

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Project Information:

Our shelter and programming addresses the growing problem of family homelessness in New Hampshire as housing costs for rentals continue to climb and as the percentage of income needed for housing increases for New Hampshire families and individuals. Vacancies for low income housing is limited; the impact that this is having is a decrease in the number of housing rentals in the Seacoast Area.

The outcome we expect from this project is both an increased capacity to serve New Hampshire residents experiencing homelessness and the ability to continue our mission into the third decade of existence. We further expect to be located in a location that better serves the clientele with increased access to services, transportation and employment opportunities.

MISSION, VISION and VALUES

The Homeless Center for Strafford County (HCSC) provides community members and families with shelter, case management, and educational programs that lead to self-sufficiency and permanent housing.

Our Vision is to provide the best evidence based, two generational approach to eliminating community homelessness in a dignified and respectful manner.

The Homeless Center for Strafford County Operates with compassion and inclusivity resulting in:

- Safe Environment: Home-like, Secure, Clean, and Communal
- Community Connection: Engagement, Funding, Staffing, and Resource Sharing
- Effectiveness: Goal-Oriented and Family-Focused Educational Programs

Structure: There are seven employees reporting directly to the Executive Director who reports to the Board of Directors for this 501 (C) 3 and the Board operates using Robert's Rules of Engagement. The Center has 42 Volunteers that perform various project work on an as needed basis or greet sheltered clients as they come and go weekdays.

Governance: The Homeless Center for Strafford County is governed by a Board of Director's with an Executive Director leading all operational goals and providing input to Mission, Vision and Values. Our financial well being is overseen by a CPA firm that also performs all bookkeeping duties.

Entry Requirements for Client: Sheltered clients participate in entry by telephone contact first. Walk In sheltering is not allowed. Phone intake processes of 30 minutes to an hour occur before entry. Clients are to be substance free upon entry and testing is performed on site randomly and as needed. Clients are expected to fully participate in all programming and to be working with case management at full capacity to find and obtain permanent housing.

Clients are expected to be able to self care at all times as medical services and homemaker services are not offered at the facility. All clients are screened using a state criminal background check.

Adult Clients are actively involved in work , work search, housing search or schooling daily.

Programming Offered On Site:

All residents participate daily in multiple areas of our programming. This is required of all sheltered clients.

Comprehensive Programming Areas:

-Resume Creation -Job Interview Skills -Employment Searches -Housing Searches

-Landlord Advocacy -Financial Literacy -Reading Literacy -Bridge to External Services

-Budgeting Skills -Nutritional Classes -Nurturing Parenting Classes

-Support for obtaining High School Equivalency -Support for College Enrollment

-Connections to Work Apprenticeships -Support for obtaining and reinstating Driver's Licensing

-Physical and Mental Health Insurance Enrollment -Childhood reading programming

-Children's Enrichment Classes (Cooking, Yoga, Karate, Crafts)

Organization Size: Currently HCSC (The Homeless Center for Strafford County) offers sheltering for up to 26 individuals in six family style rooms at the location of 9 Isinglas Drive, Rochester, New Hampshire.

At the new location on Washington Street in Rochester, New Hampshire ten family style rooms in five pods with a shared bath between two rooms, will shelter up to 40 individuals. Most often in family units with parents and school aged children.

Additional Size: On site 24/7 is a single staff member or a trained volunteer. Staff overlap shifts and use electronic files and communications to trade off information shift to shift.

Operations:

Cooking is scheduled and staggered for families each night. This allows the kitchen to have just two adults at time cooking meals.

Laundering is staggered weekly and families or individuals are designed a day of laundering.

Each of two family bedrooms shares a bathroom which is cleaned daily.

Upon entry all soft items are run through dryers to ensure no pests are brought into the facility. Clients are all provided new bedding, new pillows and take these items with them when placed in permanent housing.

Trash is take out to the dumpster daily.

Each pod consisting of two bedrooms has a fridge/freezer for food storage.

Rigid rules exists to ensure a trauma free environment that is family like with dignified and respectful language and behaviors expected from clients and staff at all times.

Meetings with Case Management occurs frequently throughout weekdays.

A library and computer access is available each day.

Television viewing exists for two hours daily after dinners and chores are complete.

School Vacations are scheduled with school age specific activities off site.

Operational Flow to/from the physical location:

HCSC has some clientele with owned vehicles. These owned vehicles will be parked on site. Vehicles may only be parked on site if currently *registered* and *inspected* based on New Hampshire state requirements. School aged children residing at the shelter will be bused/taxied to school from the Facility.

Meals are provided on-site from the operational funding and groceries are brought in weekly and monthly from store purchases or USDA pick up by staff only. Meals are not communal, each family or individual prepares their own food.

Each morning and Afternoon a staff member brings adult clients to and from the bus stop at the park and ride area using vehicles owned by staff and the shelter.

Each morning , afternoon and evening clients leave for work roles or work searches or for appointments.

With only an exception for work schedules or school trips, adult clients must be in the building between 10pm and 6pm. Children of all ages are in bed between 7:30pm and 9:00pm nightly dependent on age.

Safety and Safety Training: All staff and volunteers are trained in Emergency Operations for Fire Alarms and Building Evacuation, Usage of Fire Extinguishers and Staff are trained in CPR and Mental Health First Aid.

Means of Egress are monitored throughout each shift. Sprinkler systems will be installed throughout the building.

Rules and Safety are covered weekly at house meetings. The Cleanliness of the communal facility is handled by a rigorous chore program that involves residents and staff in the daily cleaning of the facility.

The interior layout and gating for small children, along with cabinet locks, outlet coverings and other typical family style safety measures are used to protect small children. Bunk beds are screwed to wall structures and only lower centered furniture is used in rooms.

The external and internal camera systems allows for viewing of the property and building.

The shelter locks all medications both prescribed and over the counter in a vaulted area with sign outs by clients as needed.

There has been two ambulance calls in the past 24 months and zero police calls during the same period of time.

Design Build Process:

The Homeless Center for Strafford County has chosen a Design/Build Process and after conducting a spaces needs assessment the New Building Task Force developed a Request For Proposal that is being distributed in July/August 2020.

Upon return of the Proposals from area Design Builders the company will be selected.

Many In Kind donations have been committed by community businesses and the Board of Directors has specifically chosen to obtain funding in a manner that will allow the community shelter to be built by community businesses and volunteers.

The lighting fixtures, foundation, playground equipment and installation, network cabling, interior painting, water hook ups, site surveying and engineering have all be committed as in kind donations to the build.

Site Studies including Geo Technical and Environmental Studies have been performed and DOT traffic studies submitted.

All construction management will be done by the selected design builder with oversight by the HCSC new building task force. (made up of staff, board of directors and community members)

The Project Budget is $1,000,000 with 25% of funding for land and 75% of funding for the expected 5300 sq. ft. building.

New Furnishings have been obtained via donations from various funding sources and meet all code requirements for furnishings.

Playground Placement behind the building has been intentional to ensure that children are safe and that neighbors will not hear children at play.

Attached please find the RFP for the design build process Appendix A and the proposed conceptual drawings for floors one and two Appendix B.

Summary: A successful shelter creates a pleasant environment for the clients served, the public, and the staff/volunteers. Controlling noise and vehicle traffic plays a significant role in the design of this community and neighbor friendly facility. The design build process and operations of this building have been intentional in the planning stages to increase the practical performance of the operations at this new location.

MAJOR SITE PLAN
FOR
HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

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SHEET 6 ~ ENTRANCE GRADING PLAN & PROFILE
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SHEET 24 ~ ROCHESTER FIRE TRUCK TURN MOVEMENTS

OWNER & APPLICANT: HOMELESS CENTER FOR STRAFFORD COUNTY
9 ISINGLASS DRIVE / P.O. BOX 7306
ROCHESTER, NH 03839-7306

SURVEYOR OF RECORD: KENNETH A. BERRY, PE, LLS
CPSWQ, CPESC, CESSWI
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825
(603) 332-2863

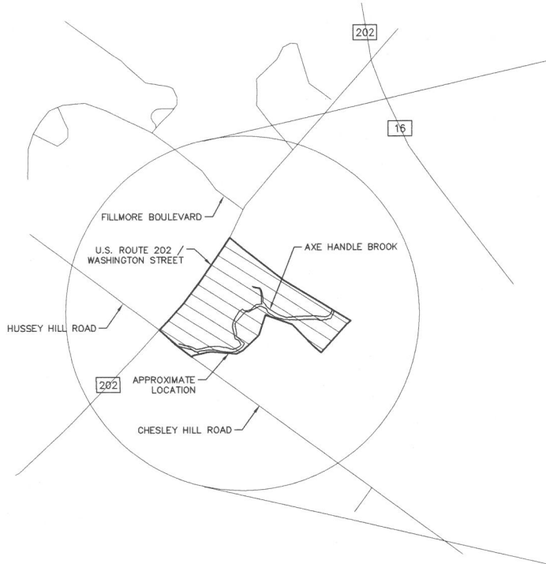
ENGINEER OF RECORD: KENNETH A. BERRY, PE, LLS
CPSWQ, CPESC, CESSWI
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825
(603) 332-2863

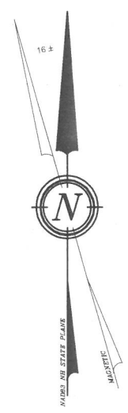
WETLAND SCIENTIST & SOIL SCIENTIST: JOHN P. HAYES III, CSS, CWS
7 LIMESTONE WAY
NORTH HAMPTON, NH 03862
(603) 205-4396

NOTE:

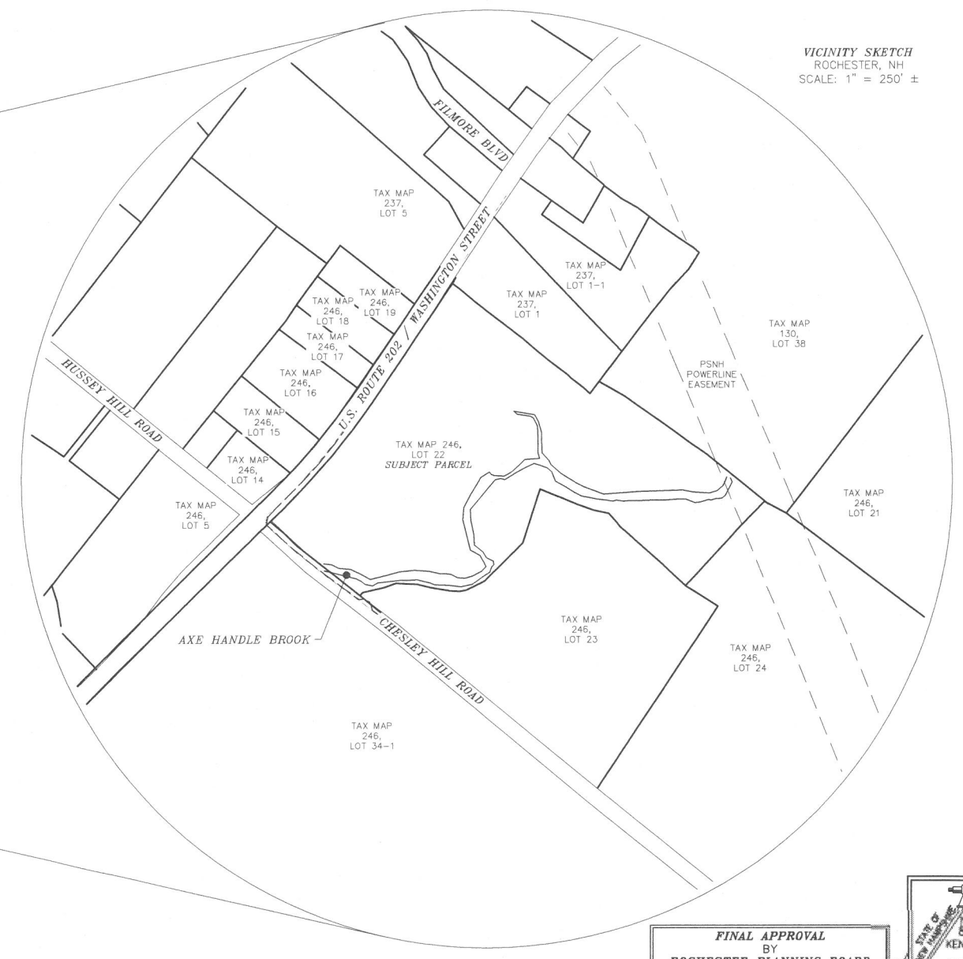
BERRY SURVEYING & ENGINEERING HAS PREPARED AN INSPECTION & MAINTENANCE MANUAL AS PART OF THIS PROJECTS DOCUMENTATION. ALL USERS ARE BOUND TO THIS DOCUMENT AS PART OF THE APPROVAL OF THE PLANNING BOARD. COPIES OF THE YEARLY INSPECTIONS ARE TO BE DELIVERED TO THE CITY OF ROCHESTER COMMUNITY SERVICES DEPARTMENT.

LOCATION PLAN
ROCHESTER, NH
NOT TO SCALE





VICINITY SKETCH
ROCHESTER, NH
SCALE: 1" = 250' ±



REQUIRED PERMITS:

1.) US EPA NOI & SWPPP: PENDING
2.) NATURAL HERITAGE BUREAU: PENDING
3.) NH DIVISION OF HISTORICAL RESOURCES: #12042
4.) NHDOT DRIVEWAY PERMIT: PENDING
5.) NHDES SUBSURFACE DISPOSAL PERMIT: PENDING

GENERAL PLAN SET NOTES:

1.) 11x17" PLANS ARE HALF THE PUBLISHED SCALE.

2.) ALL PLANS ARE CONSIDERED TO BE NOT FOR CONSTRUCTION UNLESS THEY CONTAIN THE APPROVAL STAMP OF THE CITY OF ROCHESTER.

WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SITE PLAN, THE SITE PLAN APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILIGENT ADHERENCE BY THE OWNER/SUBDIVIDER/DEVELOPER OF ALL TERMS, CONDITIONS, PROVISIONS AND SPECIFICATIONS OF THE CITY OF ROCHESTER LAND SITE PLAN REGULATIONS AS AMENDED OR AS MAY LATER BE AMENDED, IN EFFECT ON THE DATE OF APPROVAL, UNLESS OR EXCEPT INSOFAR AS EXPRESSLY WAIVED, IN ANY PARTICULAR, BELOW. NON – ADHERENCE MAY RESULT IN A REVOCATION OF APPROVAL. ANY VARIATION FROM THE APPROVED PLAN WILL REQUIRE A RESUBMISSION FOR SITE PLAN APPROVAL.

FINAL APPROVAL
BY
ROCHESTER PLANNING BOARD

CERTIFIED BY : _____

DATE : _____

STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR No. 805 KENNETH A. BERRY

REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

MAJOR SITE PLAN
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS SHOWN
DATE : JULY 7, 2020
FILE NO. : DB 2019 – 042

STATE OF NEW HAMPSHIRE KENNETH A. BERRY No. 14141 LICENSED PROFESSIONAL ENGINEER

ABBREVIATION LEGEND:

E.O.P.	EDGE OF PAVEMENT
V.G.C.	VERTICAL GRANITE CURB
S.G.C.	SLOPED GRANITE CURB
BITUM.	BITUMINOUS
E.O.P.	EDGE OF PAVEMENT
E.S.H.W.T	ESTIMATED SEASONAL HIGH WATER TABLE
TYP.	TYPICAL
U.G.E.	UNDER GROUND ELECTRIC / UTILITY
U.D.	UNDER DRAIN
C.O.	CLEAN OUT
INV.	INVERT
ELEV.	ELEVATION
F.E.S.	FLARED END SECTION
HDPE	HIGH DENSITY POLYETHYLENE
RCP	REINFORCED CONCRETE PIPE
RECB	ROLLED EROSION CONTROL BLANKET
F.G.	FINISHED GRADE
E.G.	EXISTING GRADE
E.T.W.	EDGE OF TRAVELED WAY
T.B.R.	TO BE REMOVED
PL	PROPERTY LINE
EL	EASEMENT LINE
CL	CENTER LINE
CF	CUBIC FEET
P.C.	POINT OF CURVATURE
P.T.	POINT OF TANGENCY
P.V.C.	POINT OF VERTICAL CURVE
P.V.I.	POINT OF VERTICAL INTERSECTION
P.V.T.	POINT OF VERTICAL TANGENCY
EX.	EXISTING
PROP.	PROPOSED
STA.	STATION
'/.	FEET / FEET

SSL ( ) ~ {SIZE} SINGLE SOLID LINE (COLOR W=WHITE, Y=YELLOW)
DSL ( ) ~ {SIZE} DOUBLE SOLID LINE (COLOR W=WHITE, Y=YELLOW)
SSB ( ) ~ {SIZE} SINGLE SOLID W/ BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
SBL ( ) ~ {SIZE} SINGLE BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
DBL ( ) ~ {SIZE} DOUBLE BROKEN LINE (COLOR W=WHITE, Y=YELLOW)

EXISTING LEGEND:

- IRON BOUND (FND)
- REBAR (FND)
- RAILROAD SPIKE (FND)
- UTILITY POLE / GUY WIRE
- SINGLE POST SIGN
- CURB STOP
- GATE VALVE
- GAS VALVE
- FIRE HYDRANT
- CATCH BASIN
- DRAIN MANHOLE
- TREE
- E113.83 EXISTING SPOT ELEVATION
- BUILDING SETBACK LINE
- GAS — EXISTING GAS LINE
- EWL — EXISTING WATER LINE
- D — EXISTING DRAIN LINE
- OHU — OVERHEAD UTILITIES
- 116 — EXISTING CONTOUR MINOR
- 115 — EXISTING CONTOUR MAJOR
- 50'/100' WETLAND BUILDING SETBACK
- FLOOD LINE (ZONE A)

TEST PITS:

TEST PIT #1
MAY 29, 2020

0–48" GENERAL FILL, FINE SANDY LOAM
48–55" 10YR 2/2, FINE SANDY LOAM, GRANULAR, FRIABLE.
55–62" 10YR 4/4, FINE SAND, SINGLE GRAIN, LOOSE IN HAND
62–98" 10YR 6/4 FINE LOAMY SAND, GRANULAR, FRIABLE
98–115" 2.5Y 6/4, FINE LOAMY SAND, GRANULAR, FRIABLE 15% REDOX

E.S.H.W.T. @ 98"
NO LEDGE
NO GW.
PERC = 4 MIN/ IN

TEST PIT #2
MAY 29, 2020

0–6" 10YR 2/2, FINE SANDY LOAM, GRANULAR, FRIABLE.
6"–12" 10YR 4/4, FINE SAND, SINGLE GRAIN, LOOSE IN HAND
12–48" 10YR 6/4 FINE LOAMY SAND, GRANULAR, FRIABLE
48–80" 2.5Y 6/4, FINE LOAMY SAND, GRANULAR, FRIABLE 15% REDOX

E.S.H.W.T. @ 48"
NO LEDGE
NO GW.
PERC = 4 MIN/ IN

TEST PIT #3
MAY 29, 2020

0–36" GENERAL FILL, FINE SANDY LOAM
36–68" 10YR 5/4, FINE LOAMY SAND, GRANULAR, FRIABLE.
68–80" 10YR 4/4, FINE LOAMY SAND, GRANULAR, FRIABLE
80–98" 10YR 6/4 FINE LOAMY SAND, GRANULAR, FRIABLE
98–115" 2.5Y 6/4, FINE LOAMY SAND, GRANULAR, FRIABLE 15% REDOX

E.S.H.W.T. @ 98"
NO LEDGE
NO GW.
PERC = 4 MIN/ IN

TEST PIT #4
OCTOBER 30, 2020

0–4" 10YR 4/3, FINE SANDY LOAM, GRANULAR, FRIABLE
4–22" 2.5Y 5/4, FINE SANDY LOAM, GRANULAR, FRIABLE
22–52" 7.5YR 5/4, FINE SANDY LOAM, GRANULAR, BLOCKY IN PLACE FRIABLE IN HAND

E.S.H.W.T. @ 22"
NO LEDGE
NO GW
PERC = 6 MIN/ IN

TEST PIT #5
OCTOBER 30, 2020

0–5" 10YR 4/3, FINE SANDY LOAM, GRANULAR, FRIABLE
5–22" 7.5YR 4/6, FINE SANDY LOAM, BLOCKY, FRIABLE
22–52" 10YR 4/6, FINE SANDY LOAM, GRANULAR, FRIABLE

E.S.H.W.T. @ 22"
NO LEDGE
NO GW
PERC = 6 MIN/ IN

PROPOSED LEGEND:

- UTILITY POLE
- OUTLET STRUCTURE
- SIGNAGE
- CHECK DAM–MATERIAL AS SPECIFIED
- FLOW ARROW
- WELL
- TEMPORARY BENCH MARK (T.B.M.)
- E101 / E6 DETAIL SHEET / DETAIL
- SEWER MANHOLE W/STRUCTURE
- CATCH BASIN W/STRUCTURE
- 241 CONTOUR MINOR
- 240 CONTOUR MAJOR
- D CULVERT W/ FLARED END SECTION (F.E.S.)
- W PROPOSED WATER LINE
- S PROPOSED SEWER LINE
- PROPOSED TREE LINE
- GUARD RAIL
- SHOULDER
- CENTER LINE
- CLEAR ZONE LINE
- BUILDING SETBACK LINE
- SAW CUT & MILL
- TRANSFORMER / J.BOX
- UGE U.D. UNDERGROUND UTILITY
- UNDER DRAIN
- SF SILT FENCE / EROSION MIX BERM
- SS FILTREXX 8" – 12" SILT SOXX AS SPECIFIED
- C ORANGE CONSTRUCTION PERIMETER FENCE
- GsB NRCS SOIL DELINEATION
- SOIL TYPE
- RIP RAP
- RAIN GARDEN
- BERM

SIGN ID NUMBER	SIGN SIZE (WIDTH x HEIGHT)	SIGN	TEXT DIMENSIONS	NO. OF SIGNS	BACKGROUND	LEGEND	BORDER	POST SIZE & QUANTITY
R1–1	30"x30"	STOP	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	1	RED	WHITE	WHITE	SQUARE (1)
R7–8	12"x18"	RESERVED PARKING	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	1	WHITE	GREEN W/ WHITE SYMBOL ON BLUE	RED	SQUARE (1)
R7–8a	12"x6"	VAN ACCESSIBLE	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	1	WHITE	GREEN	GREEN	SQUARE (0)

ABUTTERS WITHIN 200':

N/F STATE OF NEW HAMPSHIRE
P.O. BOX 483
JOHN MORTON BUILDING
CONCORD, NH 03301
TAX MAP 237, LOT 6
S.C.R.D. BOOK 3822, PAGE 617

N/F MIGLIORE, JOSEPH J III & DIAZ, ANGELES GETINO
183 WASHINGTON STREET
ROCHESTER, NH 03839–5506
TAX MAP 237, LOT 5
S.C.R.D. BOOK 3778, PAGE 388

N/F BERTRAND, JENNIPHER & JEFFREY
189 WASHINGTON STREET
ROCHESTER, NH 03839–5506
TAX MAP 246, LOT 19
S.C.R.D. BOOK 3582, PAGE 916

N/F MILLER, TODD & JESSICA
195 WASHINGTON STREET
ROCHESTER, NH 03839–5506
TAX MAP 246, LOT 18
S.C.R.D. BOOK 3855, PAGE 540

N/F MCCALLUON, JAMES & LINDA
197 WASHINGTON STREET
ROCHESTER, NH 03839–5506
TAX MAP 246, LOT 17
S.C.R.D. BOOK 2047, PAGE 370

N/F CULLY, CAMERON
199 WASHINGTON STREET
ROCHESTER, NH 03839–5506
TAX MAP 246, LOT 16
S.C.R.D. BOOK 4641, PAGE 504

ABUTTERS WITHIN 200':

N/F KELLY, BYRON
203 WASHINGTON STREET
ROCHESTER, NH 03867
TAX MAP 246, LOT 15
S.C.R.D. BOOK 3685, PAGE 87

N/F ROBIDAS, LACI & CRESPO, RAFAEL
1 HUSSEY HILL ROAD
ROCHESTER, NH 03867–4205
TAX MAP 246, LOT 14
S.C.R.D. BOOK 4471, PAGE 14

N/F ROBIDAS, LACI & CRESPO, RAFAEL
1 HUSSEY HILL ROAD
ROCHESTER, NH 03867–4205
TAX MAP 246, LOT 14
S.C.R.D. BOOK 4471, PAGE 14

N/F CITY OF ROCHESTER
31 WAKEFIELD STREET
ROCHESTER, NH 03867
TAX MAP 246, LOT 6
S.C.R.D. BOOK 515, PAGE 319

N/F GILBERT, DONALD J. & RUTH E.
75 CHESLEY HILL ROAD
ROCHESTER, NH 03839–5500
TAX MAP 246, LOT 34–1
S.C.R.D. BOOK 1169, PAGE 54

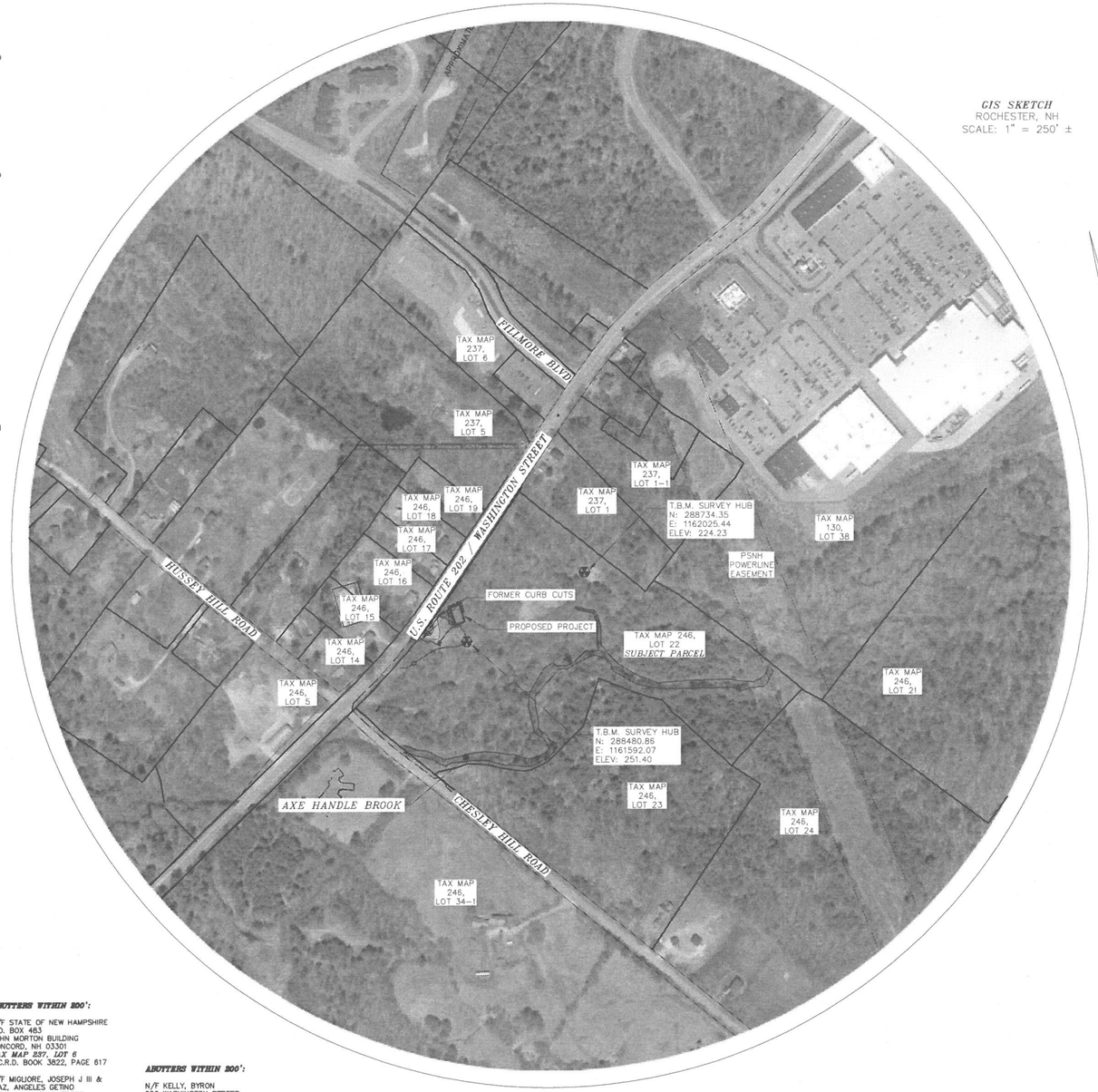
ABUTTERS WITHIN 200' CONT.:

N/F ST. LAURENT, PAUL JR.
980 COLUMBIA TER
PORT CHARLOTTE, FL 33948–3573
TAX MAP 246, LOT 23
S.C.R.D. BOOK 2288, PAGE 329

N/F THONE, DOROTHY K.
92 CHESLEY HILL ROAD
ROCHESTER, NH 03839–5500
TAX MAP 246, LOT 24
S.C.R.D. BOOK 1751, PAGE 345

N/F OCW RETAIL ROCHESTER, LLC
C/O THE WILDER COMPANIES
800 BOYLSTON ST STE 1300
PRUDENTIAL TOWER
BOSTON, MA 02199
TAX MAP 130, LOT 38
S.C.R.D. BOOK 3525, PAGE 855

N/F MCCALLUON, DONALD JR. & PAULA
7 JODY LANE
STRAFFORD, NH 03884
TAX MAP 237, LOT 1
S.C.R.D. BOOK 3401, PAGE 741



#	DATE	DESCRIPTION
#2	11–10–20	REVISED PER CLIENT REQUEST
#1	9–9–20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT
REVISION	DATE	DESCRIPTION

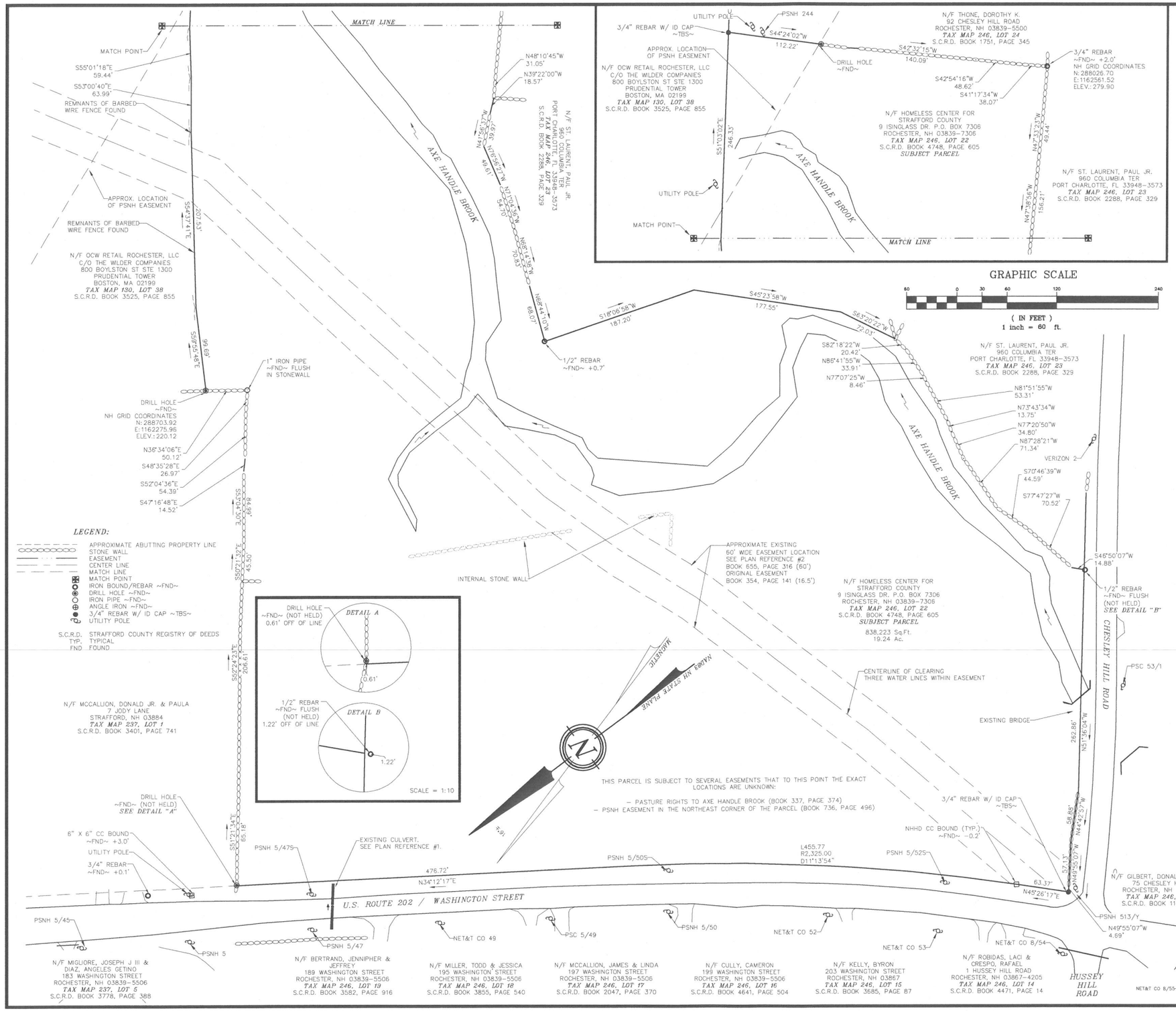
NEIGHBORHOOD PLAN
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332–2863

SCALE : AS SHOWN
DATE : JULY 7, 2020
FILE NO. : DB 2019 – 042

NEW HAMPSHIRE LICENSED LAND SURVEYOR
NO. 800
KENNETH A. BERRY
SIGNATURE

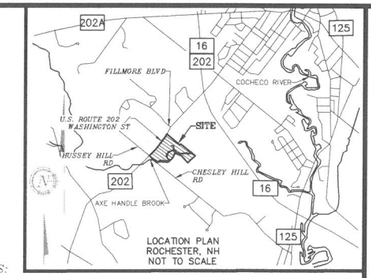
STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 7040
LICENSED
PROFESSIONAL ENGINEER



LEGEND:

- APPROXIMATE ABUTTING PROPERTY LINE
- STONE WALL
- EASEMENT
- CENTER LINE
- MATCH LINE
- MATCH POINT
- IRON BOUND/REBAR ~FND~
- DRILL HOLE ~FND~
- IRON PIPE ~FND~
- ANGLE IRON ~FND~
- 3/4" REBAR W/ ID CAP ~TBS~
- UTILITY POLE

S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
TYP. TYPICAL
FND FOUND



NOTES:

1.) OWNER & APPLICANT: HOMELESS CENTER FOR STRAFFORD COUNTY 9 ISINGLASS DR P.O. BOX 7306 ROCHESTER, NH 03839-7306

2.) TAX MAP 246, LOT 22

3.) LOT AREA: 838,223 Sq. Ft., 19.24 Ac.

4.) S.C.R.D.: BOOK 4748, PAGE 605

5.) THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING BOUNDARIES OF TAX MAP 246, LOT 22, LOCATED IN ROCHESTER, N.H.

6.) THE BOUNDARY LINES SHOWN ON THIS PLAN ARE THE RESULT OF A CLOSED TRAVERSE PERFORMED BY THIS OFFICE IN JULY OF 2020, WITH AN ERROR OF CLOSURE OF 1 PART IN 89,752.

7.) VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. HORIZONTAL COORDINATES BASED ON NAD83. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.

PLAN REFERENCES:

1.) "THE STATE OF NEW HAMPSHIRE HIGHWAY DEPARTMENT PLANS OF PROPOSED FEDERAL AID SECOMNDARY PROJECT, FAS 269-B(1), WASHINGTON STREET"
SHEETS 8 & 9 OF 25
BY: THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION
DATED: JULY 7, 1939
ON FILE AT THIS OFFICE

2.) "PLAN SHOWING PIPE LOCATIONS ON LAND OF W. HERSOM, WASHINGTON STREET, ROCHESTER, NH, TRACED FROM PLAN OF HARDING, HADEN, AND BUCHANAN"
BY: UNKNOWN
DATED: OCTOBER 28, 1957
ON FILE AT THIS OFFICE

3.) "PLAN OF LAND OF FLORENCE BROCK BOUSQUIN, WASHINGTON STREET, ROCHESTER, N.H."
BY: THE BERRY CONSTRUCTION COMPANY, INC.
DATED: JUNE 27, 1966
BS&E PLAN #DB66-20

4.) "PLOT PLAN OF LAND & OUTPARCELS"
BY: KIMBALL CHASE
DATED: SEPTEMBER 8, 1988
S.C.R.D.: PLAN # 37A-27

5.) "SUBDIVISION PLAN, LAND OF BERTHA M. McCALLION, 184 WASHINGTON STREET, RTE 202, ROCHESTER, NH 03867"
BY: LAND TECHNICAL SERVICES
DATED: JUNE 9, 1990
S.C.R.D.: PLAN # 38A-14

6.) "LAND OF PAUL ST. LAURENT, CHESLEY HILL ROAD, ROCHESTER, N.H."
BY: BERRY SURVEYING & ENIGNEERING
DATED: JUNE 13, 2001
BS&E PLAN #DB2001-028

7.) "PROPOSED SUBDIVISION, LAND OF BERTHA M. McCALLION, 184 WASHINGTON STREET, ROCHESTER, NH"
BY: BERRY SURVEYING & ENGINEERING
DATED: SEPTEMBER 27, 2001
S.C.R.D.: PLAN # 64-45

8.) "PROPOSED LOT LINE REVISION FOR DONALD McCALLION ROUTE 202 ROCHESTER, N.H. TAX MAP 237, LOT 1-1"
BY: BERRY SURVEYING & ENGINEERING
DATED: JULY 20, 2003
S.C.R.D.: PLAN #72-63

9.) "SUBDIVISION PLAN, CHESLEY HILL ROAD, ROCHESTER, N.H."
BY: NORWAY PLAINS ASSOCIATES, INC.
DATED: MAY, 2004
S.C.R.D.: PLAN # 76-69

10.) "LEASE PLAN, LOT 130, MAP 38, IN ROCHESTER NEW HAMPSHIRE"
BY: VANASSE HANGEN BRUSTLIN, INC.
DATED: MAY 12, 2006
S.C.R.D." PLAN # 88-26

11.) "PLOT OF LAND MAP 130, LOT 68 IN ROCHESTER NEW HAMPSHIRE"
BY: VANASSE HANGEN BRUSTLIN, INC.
DATED: APRIL 20, 2007
S.C.R.D.: PLAN # 90-33

12.) "WASHINGTON STREET WATER MAIN UPGRADE PLAN"
BY: CLD CONSULTING ENGINEERS
DATED: MAY, 2007
ON FILE AT THIS OFFICE

13.) "CITY OF ROCHESTER, NH, CHESLEY HILL ROAD WATER MAIN EXTENSION"
SHEET #5 OF 7
BY: WRIGHT-PIERCE
NOT DATED
ON FILE AT THIS OFFICE

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

KENNETH A. BERRY L.L.S. 805 DATE

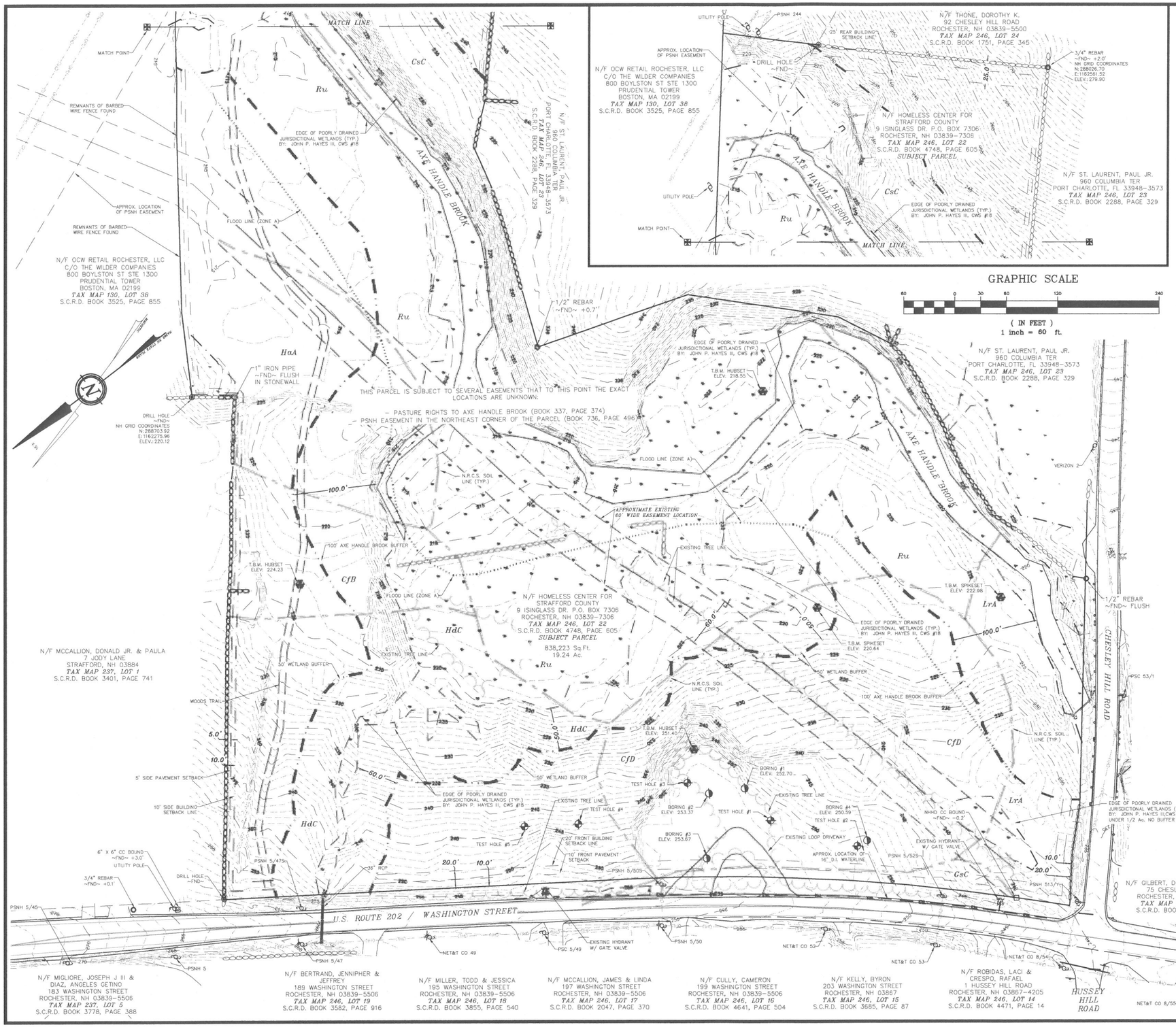
REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

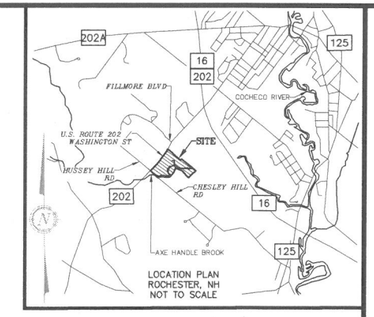
BOUNDARY PLAN
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 60 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR No. 805 KENNETH A. BERRY
SIGNATURE





NOTES:

1.) OWNER & APPLICANT: HOMELESS CENTER FOR STRAFFORD COUNTY
9 ISINGLASS DR P.O. BOX 7306
ROCHESTER, NH 03839-7306

2.) TAX MAP 246, LOT 22

3.) LOT AREA: 838,223 Sq. Ft., 19.24 Ac.

4.) S.C.R.D.: BOOK 4748, PAGE 605

5.) ZONING: HC (HIGHWAY COMMERCIAL ZONE)
BUILDING SETBACKS:
FRONT – 20'
SIDE – 10'
REAR – 25'
WETLAND: 50' (WETLANDS GREATER THAN 0.5 Ac.)
AXE HANDLE BROOK: 100'
PAVEMENT SETBACKS:
FRONT – 10'
SIDE – 5'
REAR – 10'
MIN. LOT SIZE: 20,000 Sq. Ft.
MIN. FRONTAGE: 100'
MAX. LOT COVERAGE: 85%
MAX. BUILDING HEIGHT: N/A

6.) THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING BOUNDARIES AND CONDITIONS OF TAX MAP 246, LOT 22, LOCATED IN ROCHESTER, N.H., AS OF THE DATE OF THE FIELD WORK.

7.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, A PORTION OF THIS PROPERTY FALLS WITHIN THE FLOOD PLAIN FLOOD HAZARD (ZONE A).
REF: FEMA COMMUNITY #330150, MAP 33017C0195D & MAP 33017C0211D, DATED: MAY 17, 2005.

8.) VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. HORIZONTAL DATUM BASED ON NAD83 STATE PLANE. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS.

9.) THE BOUNDARY LINES SHOWN ON THIS PLAN ARE THE RESULT OF A CLOSED TRAVERSE PERFORMED BY THIS OFFICE IN JULY OF 2020, WITH AN ERROR OF CLOSURE OF 1 PART IN 89,752.

10.) TOPOGRAPHY PROVIDED IS DEMARCATED AT 1' INTERVALS, AND IS THE RESULT OF A FIELD SURVEY PERFORMED IN SUMMER 2020.

11.) THIS SITE IS SERVICED BY MUNICIPAL WATER.

SOILS:

CfB – CHARLTON FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES
CfD – CHARLTON FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES
GsC – CHARLTON FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES, VERY STONY
GsC – GLOUCESTER VERY STONY FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES
HdC – HOLLIS–CHARLTON VERY ROCKY FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES
LrA – LEICESTER–RIDGEBURY FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES
Ru – RUMNEY FINE SANDY LOAM

SEE WEBSOIL USDA–NRCS

PLAN REFERENCES:

SEE BOUNDARY PLAN

WETLAND NOTES:

JOHN P. HAYES, III CWS #18,

WETLANDS WERE DELINEATED BY JOHN P. HAYES NOVEMBER 2019
1. REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS.
2. FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, VERSION 8.0. UNITED STATES DEPARTMENT OF AGRICULTURE (2016).
3. NATIONAL WETLAND PLANT LIST (CURRENT VERSION).

LEGEND:

APPROXIMATE ABUTTING PROPERTY LINE
STONE WALL
NRCS SOIL DELINEATION LINE
BUILDING SETBACK LINE
PAVEMENT SETBACK LINE
WETLAND LINE
50'/100' WETLAND BUILDING SETBACK
FLOOD LINE (ZONE A)
OVERHEAD UTILITIES LINE
CONTOUR LINE, MAJOR
CONTOUR LINE, MINOR
EXISTING DRAIN LINE
IRON BOUND/REBAR ~FND~
DRILL HOLE ~FND~
IRON PIPE ~FND~
ANGLE IRON ~FND~
UTILITY POLE
TEST PIT
GEOTECHNICAL BORING

LrA NRCS SOIL LABEL
S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
TYP. TYPICAL
FND FOUND

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

KENNETH A. BERRY L.L.S. 805 DATE

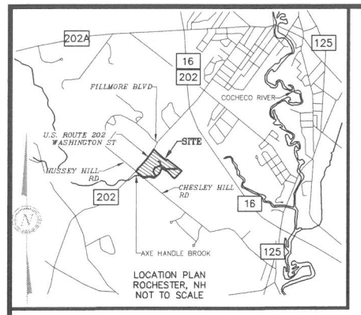
REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

EXISTING CONDITIONS PLAN
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 60 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 – 042

STATE OF NEW HAMPSHIRE No. 805 KENNETH A. BERRY LAND SURVEYOR
SIGNATURE



LOCATION PLAN
ROCHESTER, NH
NOT TO SCALE

STANDARD SITE PLAN NOTES:

1.) OWNER & APPLICANT: HOMELESS CENTER FOR STRAFFORD COUNTY
9 ISINGLASS DR P.O. BOX 7306
ROCHESTER, NH 03839-7306

2.) TAX MAP 246, LOT 22

3.) LOT AREA: 838,223 Sq. Ft., 19.24 Ac.

4.) S.C.R.D.: BOOK 4748, PAGE 605

5.) ZONING: HC (HIGHWAY COMMERCIAL ZONE)
BUILDING SETBACKS:
FRONT – 20'
SIDE – 10'
REAR – 25'
WETLAND: 50' (WETLANDS GREATER THAN 0.5 Ac.)
AXE HANDLE BROOK: 100'
PAVEMENT SETBACKS:
FRONT – 10'
SIDE – 5'
REAR – 10'
MIN. LOT SIZE: 20,000 Sq. Ft.
MIN. FRONTAGE: 100'
MAX. LOT COVERAGE: 85%
MAX. BUILDING HEIGHT: N/A

6.) AS-BUILT PLANS OF SITE SHALL BE SUBMITTED ON PAPER AND IN A DIGITAL FORMAT IN A PDF AND AUTOCAD DWG, AUTOCAD DXF OR AN ERSI FORMAT TO THE CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS UPON COMPLETION OF PROJECT. AS-BUILT PLANS SHALL BE PREPARED AND CERTIFIED CORRECT BY A L.L.S. OR P.E. DIGITAL FILES SHALL BE GEO-REFERENCED TO NEW HAMPSHIRE STATE PLANE COORDINATES NAD83 AND SHALL BE EXPRESSED IN FEET.

7.) DATUM: PROJECT DATUM IS BASED ON GPS COORDINATES ESTABLISHED WITH A TOPCON HIPER SR RECEIVER IN JULY 2020 AND REPRESENTED IN NEW HAMPSHIRE STATE PLANE COORDINATES NAD 1983 AND VERTICALLY BY NAVD 1988.

8.) ALL ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND, EXCEPT ONE REQUIRE DROP POLE.

9.) THE SUBJECT PARCEL IS SERVICED BY MUNICIPAL WATER.

10.) ALL EROSION CONTROL NOTES SHALL INCLUDE PROVISIONS FOR CONSTRUCTION SEQUENCING, TEMPORARY EROSION CONTROL MEASURES, AND PERMANENT STANDARDSSUCH AS LOAM SPREAD RATE FOR DISTURBED AREAS, RATES OF LIME, TYPE AND RATES FOR FERTILIZER, AND SEED AND MULCH MIXTURE WITH RATES OF APPLICATION.

11.) ALL TREATMENT SWALES TO BE CONSTRUCTED SHALL HAVE SOD BOTTOMS.

STANDARD SITE PLAN NOTES CONT.:

12.) A LETTER OF CREDIT FOR THE COST OF RE-VEGETATING ALL TO BE DISTURBED AREAS ON THE SITE SHALL BE SUBMITTED PRIOR TO ANY EARTH DISTURBING ACTIVITY OCCURS. COORDINATE WITH THE CITY OF ROCHESTER DEPARTMENT OF PLANNING & DEPARTMENT OF PUBLIC WORKS.

13.) A PRE-CONSTRUCTION CONFERENCE WITH THE DEVELOPER, THE DESIGN ENGINEER, THE EARTHWORK CONTRACTOR, AND THE TECHNICAL STAFF WORKS SHALL OCCUR PRIOR TO ANY EARTH DISTURBING ACTIVITY.

14.) BUILDING ADDRESSES SHALL BE ASSIGNED BY THE ASSESSING DEPARTMENT AT THE TIME OF ISSUANCE OF A BUILDING PERMIT.

15.) ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2016. CONSTRUCTION SHALL ALSO CONFORM TO THE CITY OF ROCHESTER POLICIES AND PRACTICES.

16.) CALL DIG SAFE PRIOR TO BEGINNING WORK (1-888-344-7233).

17.) CONTRACTOR TO CONTACT ROCHESTER DPW A MINIMUM OF TWO WEEKS PRIOR TO ANY CONSTRUCTION TO COORDINATE ALL WORK CONCERNING INSTALLATION OF ANY PROPOSED WATER LINE IMPROVEMENTS AS MAY BE REQUIRED.

18.) CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH EVERSOURCE AT (603) 436-7708. ALL ELECTRIC CONDUIT INSTALLATION SHALL BE INSPECTED BY EVERSOURCE PRIOR TO BACKFILL. A 48-HOUR MINIMUM NOTICE IS REQUIRED.

19.) CONTRACTOR SHALL COORDINATE ALL TELECOMMUNICATIONS INSTALLATIONS WITH CONSOLIDATED COMMUNICATIONS AT (888) 941-1064 OR ATLANTIC BROADBAND AT (800) 952-1001.

20.) ALL UNPAVED DISTURBED AREAS ARE TO RECEIVE 4" QUALITY LOAM AND SEED.

21.) THE CONSTRUCTION HOURS SHALL BE LIMITED TO MONDAY-FRIDAY 7AM-6PM, SATURDAY 8AM-6PM WITH NO SUNDAY HOURS. HOURS OF CONSTRUCTION SHALL BE DOCUMENTED ON A SITE CONSTRUCTION SIGN ALONG WITH THE CONTACT INFORMATION FOR THE GENERAL CONTRACTOR.

22.) FROM GROUND BREAKING THE SITE SHALL REMAIN ACCESSIBLE YEAR ROUND IN ALL WEATHER CONDITIONS.

23.) THIS SITE DESIGN HAS BEEN REVIEWED FOR COMPLIANCE WITH THE APPLICABLE ACCESSIBILITY REGULATIONS IN ACCORDANCE WITH NH RSA 11-A:5.

24.) EXTERIOR LIGHTING SHALL BE CUT-OFF TYPE FIXTURES AND SHALL PROVIDE LIGHTING DIRECTED ON-SITE ONLY.

25.) FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED ON THE STREET SIDE OF THE BUILDING PER NFPA 13, AS APPLICABLE.

STANDARD SITE PLAN NOTES:

26.) FINAL UTILITY LOCATIONS TO BE COORDINATED BETWEEN THE CONTRACTOR, ALL APPROPRIATE UTILITY COMPANIES AND THE ROCHESTER DPW.

27.) BACKFLOW PREVENTORS SHALL BE PROVIDED FOR DOMESTIC WATER LINES.

28.) THE LIMITS OF CONSTRUCTION DISTURBANCE AND TREE CLEARING LIMITS ARE TO BE MARKED OUT AND APPROVED BY THE CITY PRIOR TO WORK.

29.) THE FOLLOWING FEDERAL AND STATE PERMITS HAVE BEEN ISSUED FOR THE SUBJECT PROPERTY:
US EPA NOI & SWPPP: PENDING
NHDES SUBSURFACE DISPOSAL PERMIT: PENDING
NATURAL HERITAGE BUREAU: PENDING
NH DIVISION OF HISTORICAL RESOURCES: #12042
NHDOT DRIVEWAY PERMIT: PENDING

30.) STREET TREES ARE PROVIDED FOR WITHIN THIS PLAN SET. THREE SPECIES ARE SUGGESTED. IT SHOULD BE NOTED THAT A MIX OF THESE SPECIES IS REQUIRED. AN ALTERNATING PATTERN IS PREFERRED.

31.) THIS PLAN PROPOSES APPROXIMATELY 46,600 SQ. FT. (1.07 Ac.) OF DISTURBANCE.

32.) IF REQUIRED, SNOW SHALL BE REMOVED TO AN APPROVED LOCATION. SNOW STORAGE SHALL NOT IMPEDE DRAINAGE.
PAVEMENT COVERAGE: 7,420 Sq. Ft.
SNOW STORAGE: 1,240+ Sq. Ft.
MINIMUM 6:1 RATIO PROVIDED
PLOWS ARE TO BE RUBBER EDGED. SAND AND SALT APPLICATIONS SHOULD BE CONSIDERED CAREFULLY.

33.) LOT COVERAGE
EXISTING BUILDING IMPERVIOUS AREA: 0 Sq. Ft. (0%)
EXISTING PAVED IMPERVIOUS AREA: 0 Sq. Ft. (0%)
TOTAL EXISTING IMPERVIOUS COVER: 0 Sq. Ft. (0%)
PROPOSED BUILDING IMPERVIOUS AREA: 2,680 Sq. Ft. (0.3%)
PROPOSED PAVED IMPERVIOUS AREA: 7,420 Sq. Ft. (0.9%)
PROPOSED POROUS ASPHALT IMPERVIOUS AREA: 6,212 Sq. Ft. (0.7%)
TOTAL PROPOSED IMPERVIOUS COVER: 10,100 Sq. Ft. (1.2%)

34.) WRITTEN DIMENSION ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR IS TO CONFIRM ALL ELEVATIONS. CONFLICTS WILL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

35.) FOR MORE INFORMATION ABOUT THIS SITE PLAN PLEASE CONTACT THE CITY OF ROCHESTER PLANNING OFFICE AT 603-335-1338.

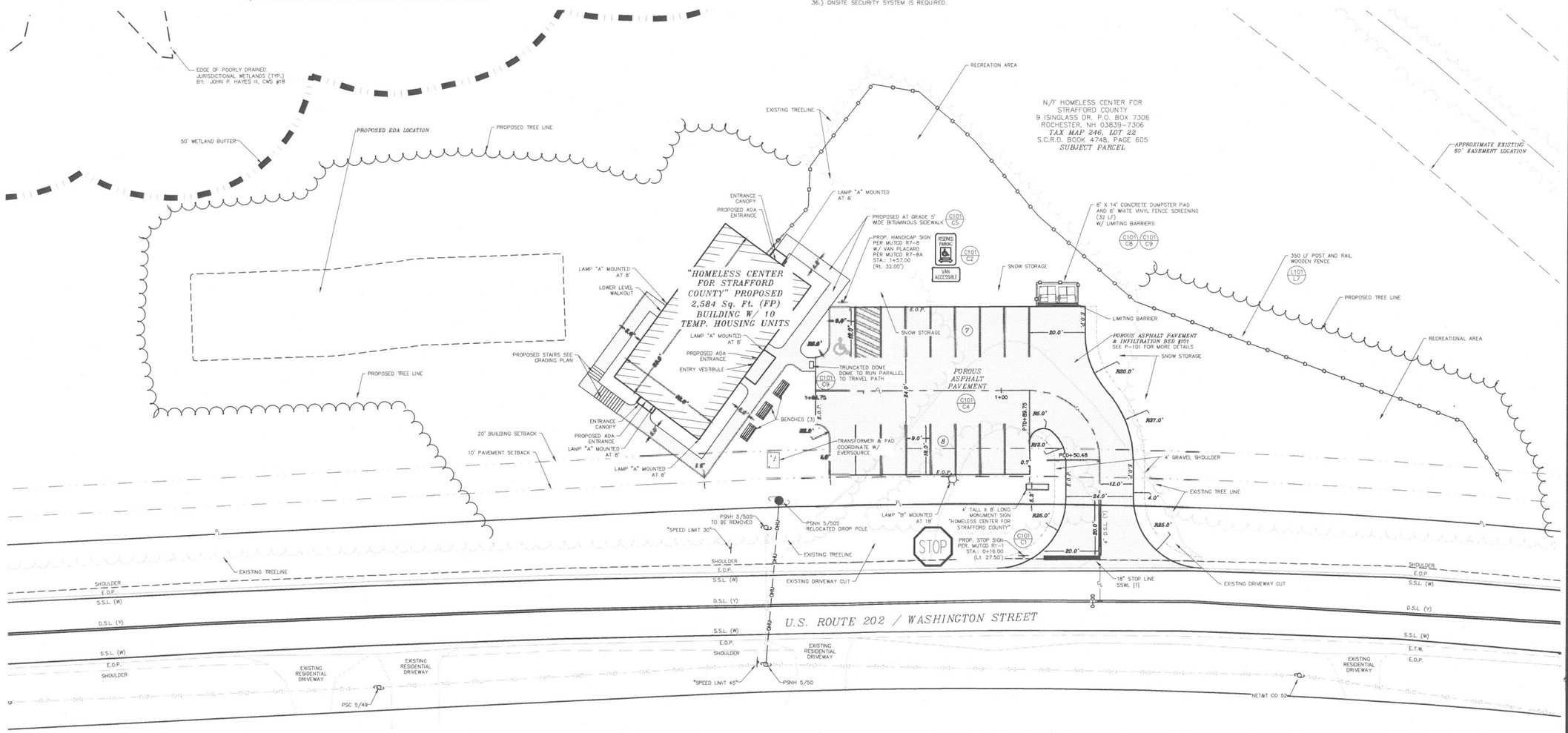
36.) ONSITE SECURITY SYSTEM IS REQUIRED.

PARKING REQUIREMENTS:

SECTION 10 PARKING REQUIREMENTS
(ASSISTED LIVING USE (HOMELESS SHELTER)
((0.75 SPACES PER BED:
((40 BEDS (10 TEMPORARY HOUSING UNITS (ASSUMED 2 ADULTS/ROOM)) x 0.75 SPACES = 15 SPACES
((SEE DETAILED EXPLANATION IN PROJECT NARRATIVE

TOTAL PROPOSED = 15 SPACES

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.



REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

SITE PLAN
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 – 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 7870
LICENSED
PROFESSIONAL ENGINEER

NOTES:

1.) OWNER & APPLICANT: HOMELESS CENTER FOR STRAFFORD COUNTY
9 ISINGLASS DR P.O. BOX 7306
ROCHESTER, NH 03839-7306

2.) TAX MAP 246, LOT 22

3.) LOT AREA: 838,223 Sq. Ft., 19.24 Ac.

4.) S.C.R.D.: BOOK 4748, PAGE 605

5.) THE INTENT OF THIS PLAN IS TO PROVIDE GRADING AND ENGINEERING DETAILS OF TAX MAP 246, LOT 22.

6.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON PERIMETER CONTROL (MULCH BERM / FENCE / SILT SOXX).

7.) BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

8.) EXISTING AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.

STANDARD CONSTRUCTION NOTES:

1.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON PERIMETER CONTROL (MULCH BERM / FENCE / SILT SOXX).

2.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

3.) EXISTING AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.

4.) SEE UTILITY PLANS FOR DETAILS ON THE PROPOSED WATER, AND UNDERGROUND ELECTRIC LINES SHOWN.

5.) EXISTING CONDITIONS INFORMATION IS BASED ON A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING AND IS ENCLOSED IN THIS PACKAGE.

6.) THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS DATED 2016, CURRENT STANDARD PLANS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

7.) CONTRACTOR SHALL TAKE SPECIAL CARE IN NOT DISTURBING EXISTING MONUMENTS BOUNDS, AND OR BENCHMARKS WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.

8.) THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.

STANDARD CONSTRUCTION NOTES CONT.:

9.) WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.

10.) THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.

11.) AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. DISTURBANCE OUTSIDE AREAS SHOWN TO BE APPROVED BY DESIGN ENGINEER.

12.) THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R & R)

13.) ALL SYMBOLS, WORDS, TRANSVERSE MARKINGS (STOP BARS, CROSSWALK LINES, AND RAILROAD SYMBOLS), LANE LINES, AND ALL OTHER MARKINGS NOTED WITH [T] SHALL BE THERMOPLASTIC.

14.) ALL ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE DESIGN ENGINEER IS TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY. TEMPORARY BENCHMARKS (T.B.M.) ARE TO BE PROVIDED BY THE DESIGN ENGINEER.

15.) NOTE THAT THE PROJECT IS SUBJECT TO THE EPA NPDES PHASE II. THE NOTICE OF INTENT (NOI) MUST BE FILED ALONG WITH A STORMWATER POLLUTION PREVENTION PLAN (SWPPP). WEEKLY INSPECTIONS WILL BE CONDUCTED BY THE DESIGN ENGINEER OR AFTER A STORM EVENT OF GREAT THAN 0.25".

STANDARD CONSTRUCTION NOTES CONT.:

16.) UPON FINAL COMPLETION AND 85% STABILIZATION THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS TO INCLUDE THE PUMPING OF THE BASIN SUMPS.

17.) A PRE-CONSTRUCTION CONFERENCE WITH THE DEVELOPER, THE DESIGN ENGINEER, THE EARTHWORK CONTRACTOR AND ROCHESTER CITY STAFF SHALL OCCUR PRIOR TO ANY EARTH DISTURBING ACTIVITY.

18.) WRITTEN DIMENSION ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR IS TO CONFIRM ALL ELEVATIONS. CONFLICTS WILL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

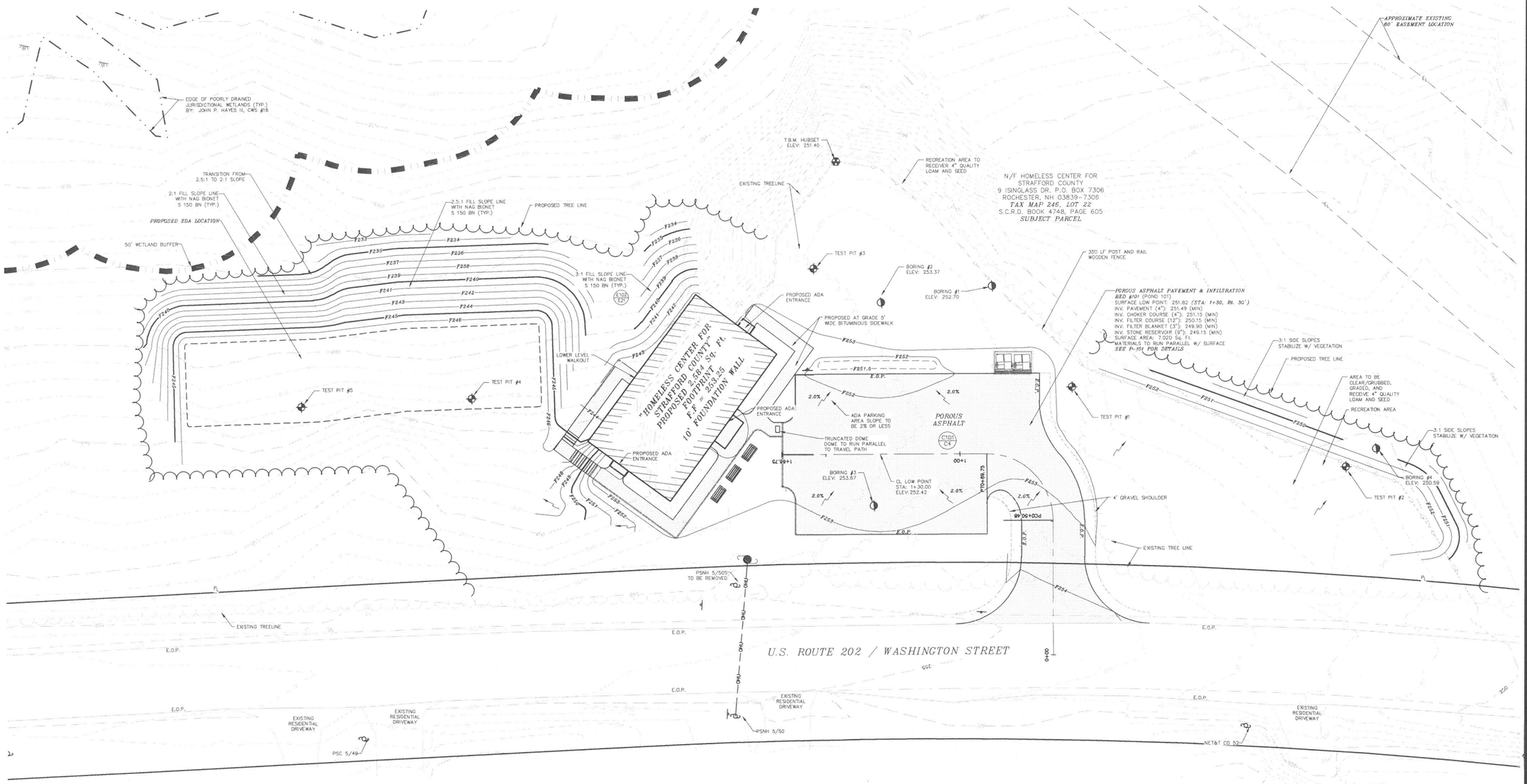
19.) THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

20.) SEE DETAILS CONCERNING SITE LAYOUT, UTILITY, AND SEDIMENT AND EROSION CONTROLS.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.



REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

OVERALL GRADING PLAN
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 7041
LICENSED
PROFESSIONAL ENGINEER

NOTES:

1.) OWNER & APPLICANT: HOMELESS CENTER FOR STRAFFORD COUNTY
9 ISINGLASS DR P.O. BOX 7306
ROCHESTER, NH 03839-7306

2.) TAX MAP 246, LOT 22

3.) LOT AREA: 838,223 Sq. Ft., 19.24 Ac.

4.) S.C.R.D.: BOOK 4748, PAGE 605

5.) THE INTENT OF THIS PLAN IS TO PROVIDE GRADING AND ENGINEERING DETAILS OF TAX MAP 246, LOT 22.

6.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON PERIMETER CONTROL (MULCH BERM / FENCE / SILT SOXX).

7.) BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

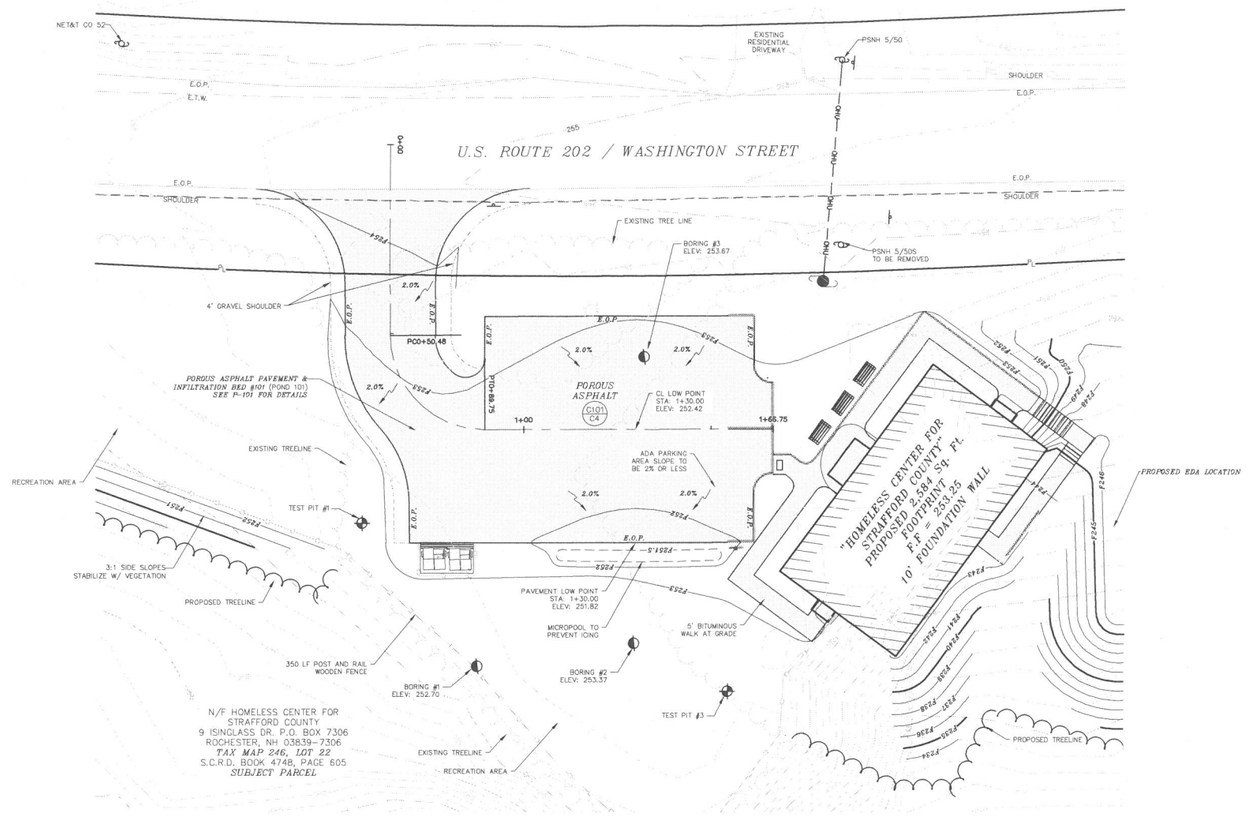
8.) EXISTING AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.

9.) SEE SHEET 5 FOR ALL OTHER STANDARD CONSTRUCTION NOTES.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.



PLAN VIEW DRIVEWAY 0+00 – 1+66.75

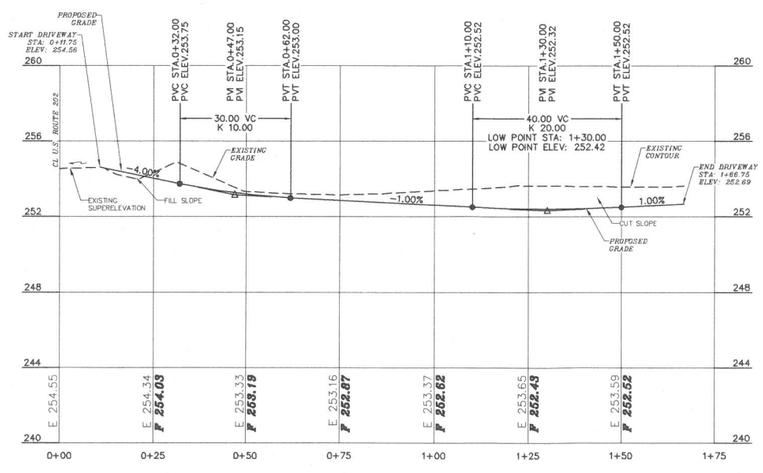
GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

VERTICAL SCALE: 1" = 4'

PROFILE VIEW DRIVEWAY 0+00 – 1+66.75



REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

DRIVEWAY PLAN & PROFILE
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 – 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
LICENSED
PROFESSIONAL ENGINEER

DESIGN NOTES:

1.) POROUS ASPHALT PAVEMENT WILL CONFORM TO UNHSC (2007b) SPECIFICATIONS AS UPDATED BY UNHSC DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS (DATED: SEPTEMBER 2016).

2.) THE FILTER COURSE WILL BE INSTALLED AT A MINIMUM DEPTH OF 12 INCHES AND CONSIST OF NHDOT (2016) SAND, ITEM 304.1 PER THE NH STORMWATER MANUAL.

3.) SEE CROSS SECTIONS FOR DETAILS.

4.) SEE STORMWATER SYSTEM OPERATIONS AND MAINTENANCE PLAN, DATED OCTOBER 30, 2020 FOR MAINTENANCE REQUIREMENTS.

REFERENCE:

1.) NH STORMWATER MANUAL: VOLUME 2, SECTION 4E PERMEABLE PAVEMENT.

2.) UNHSC DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS, FEBRUARY 2014, REVISED SEPTEMBER 2016, UNIVERSITY OF NEW HAMPSHIRE STORWATER CENTER, DURHAM, NH 03824-3534.

3.) POROUS ASPHALT PAVEMENT FOR STORMWATER MANAGEMENT, THE UNH STORMWATER CENTER.

CHOKER COURSE *

SIEVE SIZE	% PASSING BY WEIGHT
1 1/2"	100
1"	95 – 100
1/2"	25 – 60
# 4	0 – 10
# 8	0 – 5

* EQUIVALENT TO STANDARD STONE SIZE #57 – AASHTO

FILTER COURSE *

SIEVE SIZE	% PASSING BY WEIGHT
6"	100
# 4	70 – 100
# 200	0 – 6**

* EQUIVALENT TO MODIFIED NHDOT 304.1 – SECTION 304 OF NHDOT NHDOT STANDARD SPECIFICATIONS

** LESS THAN 4% FINES

POROUS ASPHALT MIX DESIGN CRITERIA

SIEVE SIZE	% PASSING BY WEIGHT
3/4"	100
1/2"	85 – 100
3/8"	55 – 75
# 4	10 – 25
# 8	5 – 12
# 200	2 – 4

BINDER CONTENT (AASHTO T164)	5.8 – 6.5%
AIR VOID CONTENT (AASHTO D6752)	16 – 22%
DRAINDOWN (AASHTO D6390)	≤ 0.3%
RETAINED TENSILE STRENGTH (AASHTO D6390)	≥ 80%
CANTABRO ABRASION TEST (UNAGED)	≤ 20%
CANTABRO ABRASION TEST (7 DAYS)	≤ 30%

FILTER BLANKET COURSE *

SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	95 – 100
# 4	22 – 55
# 8	0 – 10

* EQUIVALENT TO STANDARD WASHED STONE – SECTION 702 OF NHDOT NHDOT STANDARD SPECIFICATIONS

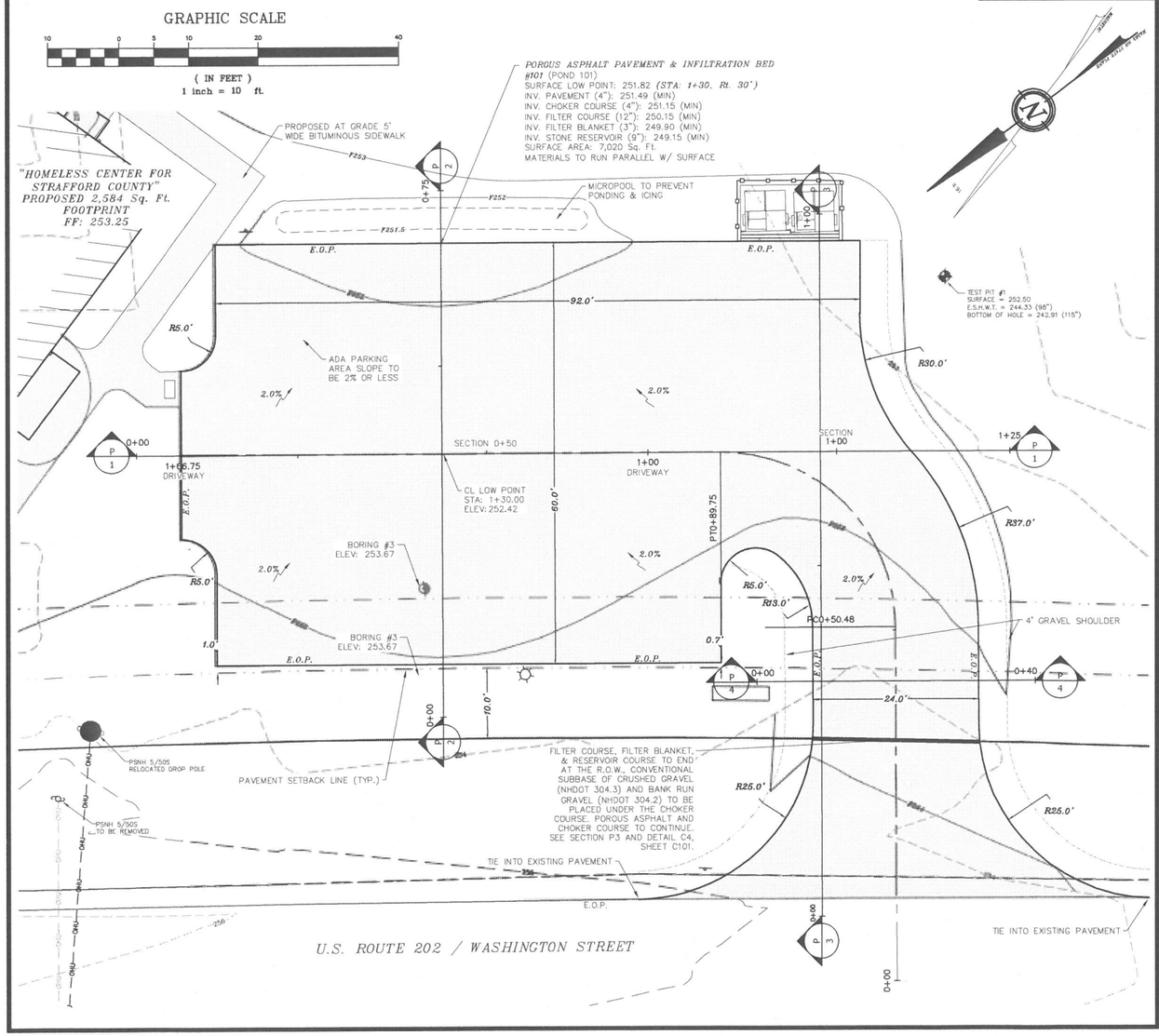
RESERVOIR COURSE *

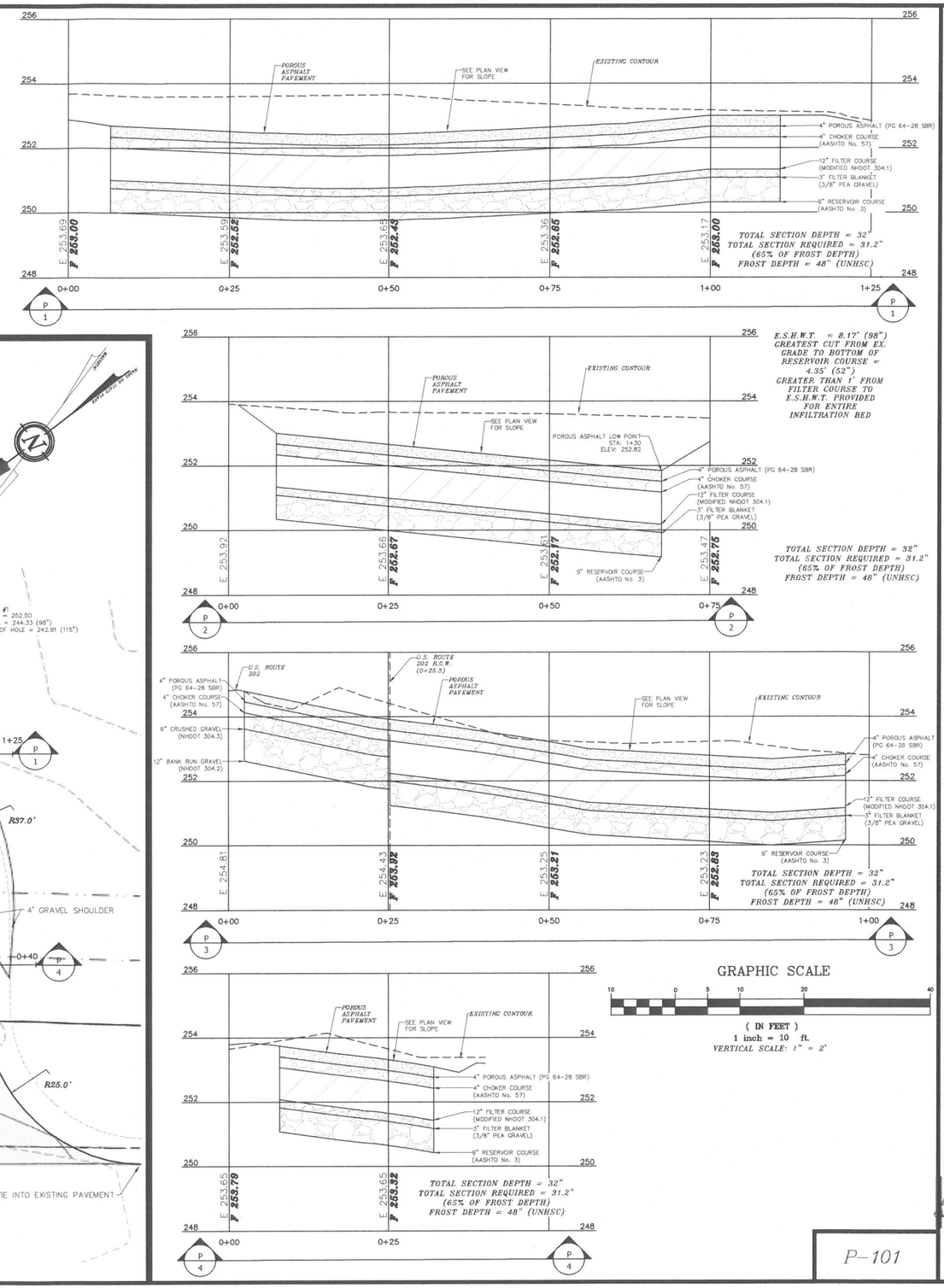
SIEVE SIZE	% PASSING BY WEIGHT
2 1/2"	100
2"	90 – 100
1 1/2"	35 – 70
1"	0 – 15
1/2"	0 – 5

* EQUIVALENT TO STANDARD STONE SIZE #3 – AASHTO

POROUS ASPHALT PAVEMENT

NOT TO SCALE





GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.
VERTICAL SCALE: 1" = 2'

P-101

REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

POROUS ASPHALT PAVEMENT & INFILTRATION BED
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 10 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 – 042

STATE OF NEW HAMPSHIRE KENNETH A. BERRY LICENSED PROFESSIONAL ENGINEER

SHEET 7 OF 24

SOILS & DEWATERING:

CfB	*CHARLTON*	*FINE SANDY LOAM*	*K= 0.43*
CfD	*CHARLTON*	*FINE SANDY LOAM*	*K= 0.43*
CsC	*CHARLTON*	*FINE SANDY LOAM*	*K= 0.43*
GoC	*GLOUCESTER*	*STONY FINE SANDY LOAM*	*K= 0.17*
HsC	*HOLLIS-CANTON*	*STONY FINE SANDY LOAM*	*K= 0.43*
LrA	*LEICESTER*	*FINE SANDY LOAM*	*K= 0.17*
Ru	*RUMNEY*	*FINE SANDY LOAM*	*K= N/A*

SEE WEBSOIL USDA-NRCS
ERODIBILITY FACTOR – K, CPESC MANUAL, ENVIROCERT INTERNATIONAL INC. & ROCKINGHAM COUNTTY SOIL SURVEY, ROCKWEB SOIL ATTRIBUTES.

CONTRACTOR TO BE AWARE OF THE SOIL PROFILES AND ENSURE THAT PROPER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE TAKEN AT ALL TIMES. ANY DEWATERING REQUIREMENTS IN NEW HAMPSHIRE REQUIRE SPECIAL PROVISIONS IN ACCORDANCE WITH THE "CLARIFICATION OF SECTION 9.1.2 (STATE OF NEW HAMPSHIRE CONDITIONS) AND OTHER NH SPECIFIC INFORMATION FOR THE U.S. EPA 2012 NPDES CONSTRUCTION GENERAL PERMIT (CGP)" DATED MAY 3, 2012 INCLUDED IN THE SWPPP.

COVER MANAGEMENT DURING CONSTRUCTION FOR EXPOSED SOIL WILL INCLUDE HAY / STRAW APPLIED AT A RATE OF 2.0 TONS PER ACRE, TEMPORARY SEEDING OF ANNUAL RYE GRASS, AND PERMANENT SEEDING AT THE EARLIES OPPORTUNITY. SEE ADDITIONAL REQUIREMENT FOR STABILIZATION ON THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS, E-101 AND E-102.

THE CONSTRUCTION SCHEDULE WILL BE MANAGED SO THAT ALL STORMWATER STRUCTURES WILL BE BUILT AND STABILIZED PRIOR TO RECEIVING SURFACE WATER RUNOFF. CONTRACTOR TO BE RESPONSIBLE FOR ALL DIVERSIONS DURING CONSTRUCTION AND FOR INTERIM SEDIMENT AND EROSION CONTROL MEASURES.

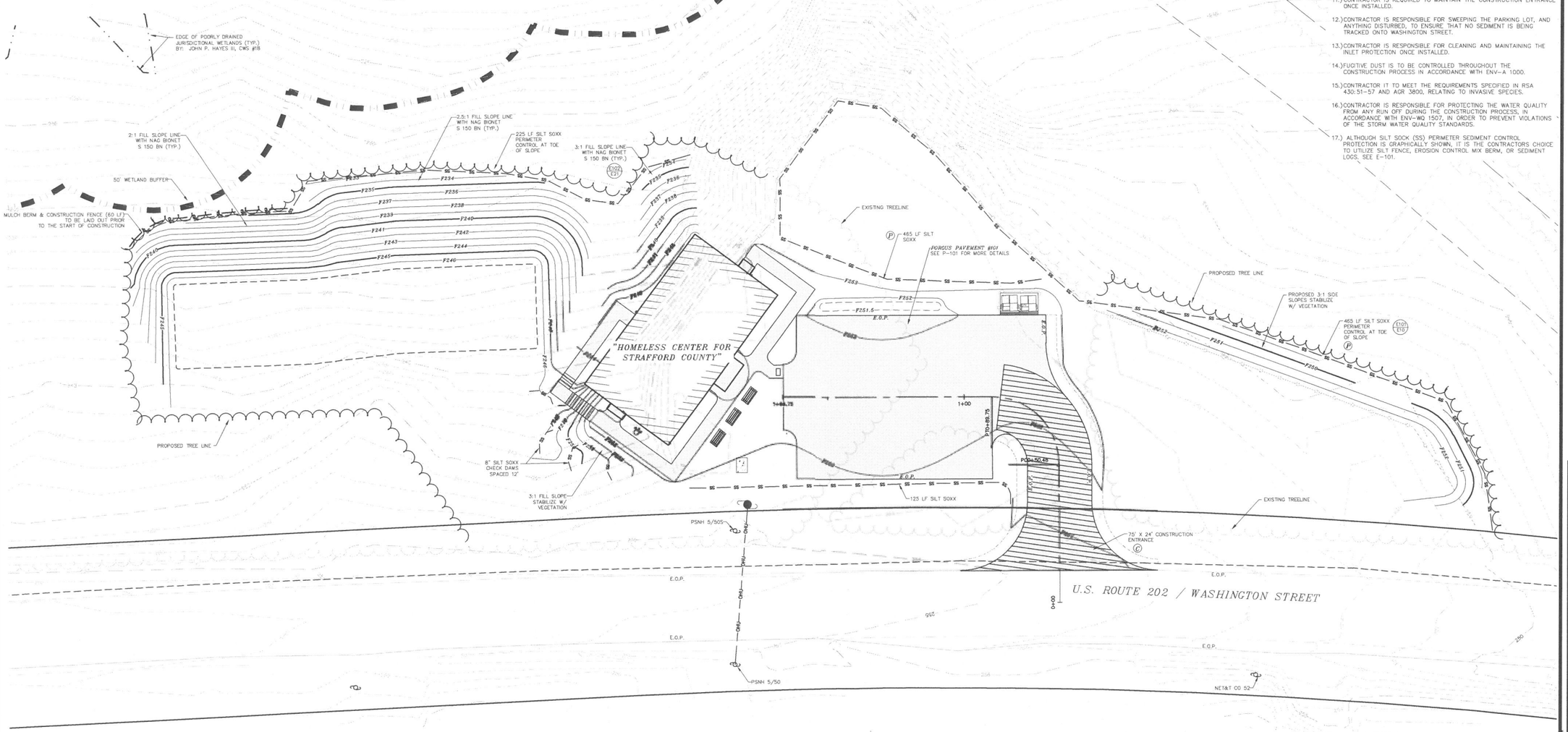
LEGEND:

- (R) RAIN GARDEN BIO-MEDIA PROTECTION
- (P) PERIMETER CONTROL
- (C) RESIDENTIAL/ROADWAY CONSTRUCTION
- IRON PIPE (FND)
- IRON BOUND (FND)
- REBAR (FND)
- UTILITY POLE
- GUY WIRE
- SF — SILT FENCE
- SS — FILTREXX SILTSOXX TREE LINE
- C — CONSTRUCTION FENCE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.



NOTES:

1.) OWNER & APPLICANT: HOMELESS CENTER FOR STRAFFORD COUNTY 9 ISINGLASS DR P.O. BOX 7306 ROCHESTER, NH 03839-7306

2.) TAX MAP 246, LOT 22

3.) LOT AREA: 838,223 Sq. Ft., 19.24 Ac.

4.) S.C.R.D.: BOOK 4748, PAGE 605

5.) THE INTENT OF THIS PLAN IS TO SHOW THE EROSION AND SEDIMENT CONTROL DESIGN FOR THE PROPOSED SITE DEVELOPMENT.

6.) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.

7.) THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

8.) ALL DRAINAGE PIPE IS TO BE HDPE N-12. INDIVIDUAL PIPE SIZES ARE SPECIFIED ON GRADING AND DETAIL PLAN SHEETS, GREEN PIPE.

9.) ALL ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE DESIGN ENGINEER IS TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY. TEMPORARY BENCHMARKS (T.B.M.) ARE TO BE PROVIDED BY THE DESIGN ENGINEER.

10.) UPON FINAL COMPLETION AND 85% STABILIZATION, THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS, SEDIMENT CONTROL PRACTICES REMOVED AND DISPOSED OF PROPERLY, AND ANNUAL MAINTENANCE PREFORMED ON ALL DRAINAGE PRACTICES.

11.) CONTRACTOR IS REQUIRED TO MAINTAIN THE CONSTRUCTION ENTRANCE ONCE INSTALLED.

12.) CONTRACTOR IS RESPONSIBLE FOR SWEEPING THE PARKING LOT, AND ANYTHING DISTURBED, TO ENSURE THAT NO SEDIMENT IS BEING TRACKED ONTO WASHINGTON STREET.

13.) CONTRACTOR IS RESPONSIBLE FOR CLEANING AND MAINTAINING THE INLET PROTECTION ONCE INSTALLED.

14.) FUGITIVE DUST IS TO BE CONTROLLED THROUGHOUT THE CONSTRUCTION PROCESS IN ACCORDANCE WITH ENV-A 1000.

15.) CONTRACTOR IT TO MEET THE REQUIREMENTS SPECIFIED IN RSA 430:51-57 AND AGR 3800, RELATING TO INVASIVE SPECIES.

16.) CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE WATER QUALITY FROM ANY RUN OFF DURING THE CONSTRUCTION PROCESS, IN ACCORDANCE WITH ENV-WQ 1507, IN ORDER TO PREVENT VIOLATIONS OF THE STORM WATER QUALITY STANDARDS.

17.) ALTHOUGH SILT SOCK (SS) PERIMETER SEDIMENT CONTROL PROTECTION IS GRAPHICALLY SHOWN, IT IS THE CONTRACTORS CHOICE TO UTILIZE SILT FENCE, EROSION CONTROL MIX BERM, OR SEDIMENT LOGS, SEE E-101.

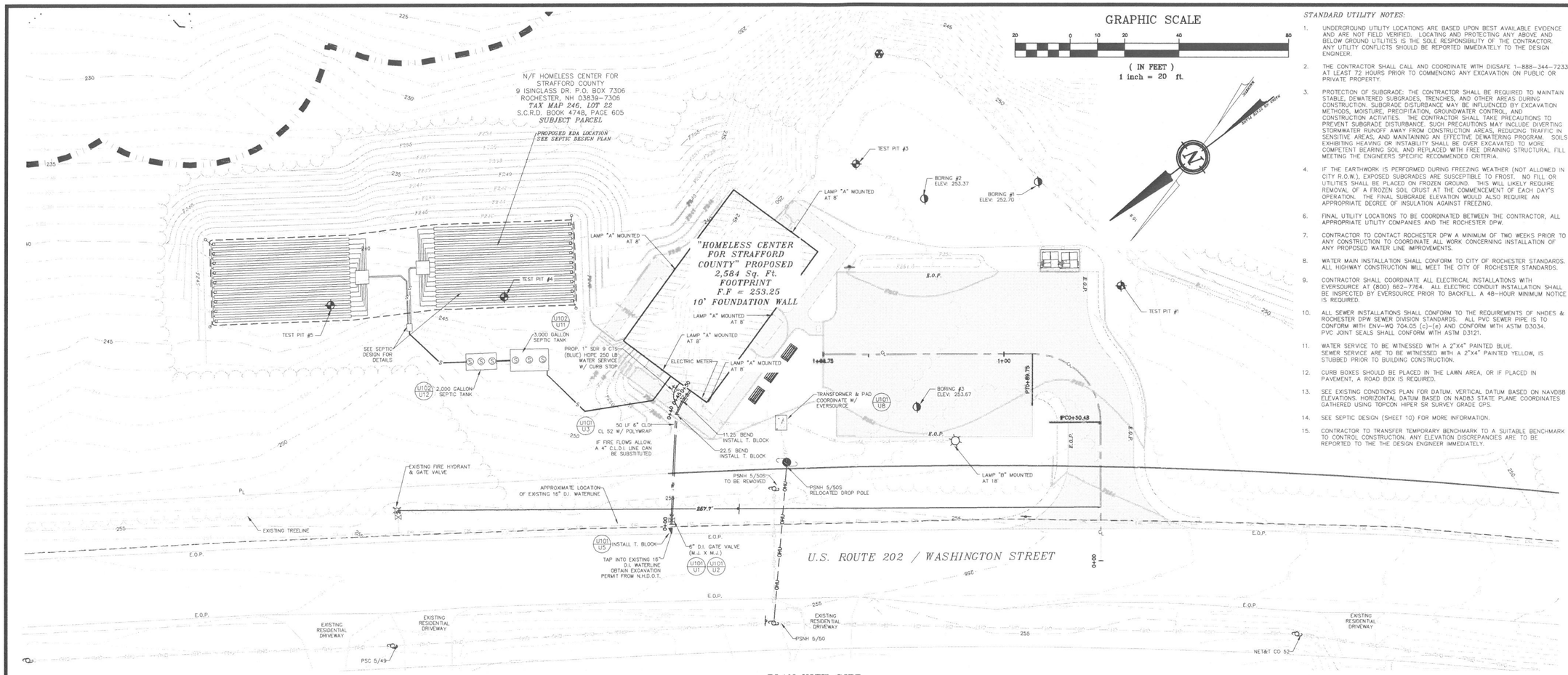
REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

EROSION AND SEDIMENT CONTROL PLAN
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
LICENSED
PROFESSIONAL ENGINEER



PLAN VIEW SITE

STANDARD UTILITY NOTES:

1. UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.
2. THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.
3. PROTECTION OF SUBGRADE: THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STABLE, DEWATERED SUBGRADES, TRENCHES, AND OTHER AREAS DURING CONSTRUCTION. SUBGRADE DISTURBANCE MAY BE INFLUENCED BY EXCAVATION METHODS, MOISTURE, PRECIPITATION, GROUNDWATER CONTROL, AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT SUBGRADE DISTURBANCE. SUCH PRECAUTIONS MAY INCLUDE DIVERTING STORMWATER RUNOFF AWAY FROM CONSTRUCTION AREAS, REDUCING TRAFFIC IN SENSITIVE AREAS, AND MAINTAINING AN EFFECTIVE DEWATERING PROGRAM. SOILS EXHIBITING HEAVING OR INSTABILITY SHALL BE OVER EXCAVATED TO MORE COMPETENT BEARING SOIL AND REPLACED WITH FREE DRAINING STRUCTURAL FILL MEETING THE ENGINEERS SPECIFIC RECOMMENDED CRITERIA.
4. IF THE EARTHWORK IS PERFORMED DURING FREEZING WEATHER (NOT ALLOWED IN CITY R.O.W.), EXPOSED SUBGRADES ARE SUSCEPTIBLE TO FROST. NO FILL OR UTILITIES SHALL BE PLACED ON FROZEN GROUND. THIS WILL LIKELY REQUIRE REMOVAL OF A FROZEN SOIL CRUST AT THE COMMENCEMENT OF EACH DAY'S OPERATION. THE FINAL SUBGRADE ELEVATION WOULD ALSO REQUIRE AN APPROPRIATE DEGREE OF INSULATION AGAINST FREEZING.
6. FINAL UTILITY LOCATIONS TO BE COORDINATED BETWEEN THE CONTRACTOR, ALL APPROPRIATE UTILITY COMPANIES AND THE ROCHESTER DPW.
7. CONTRACTOR TO CONTACT ROCHESTER DPW A MINIMUM OF TWO WEEKS PRIOR TO ANY CONSTRUCTION TO COORDINATE ALL WORK CONCERNING INSTALLATION OF ANY PROPOSED WATER LINE IMPROVEMENTS.
8. WATER MAIN INSTALLATION SHALL CONFORM TO CITY OF ROCHESTER STANDARDS. ALL HIGHWAY CONSTRUCTION WILL MEET THE CITY OF ROCHESTER STANDARDS.
9. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH EVERSOURCE AT (800) 662-7764. ALL ELECTRIC CONDUIT INSTALLATION SHALL BE INSPECTED BY EVERSOURCE PRIOR TO BACKFILL. A 48-HOUR MINIMUM NOTICE IS REQUIRED.
10. ALL SEWER INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF NHDES & ROCHESTER DPW SEWER DIVISION STANDARDS. ALL PVC SEWER PIPE IS TO CONFORM WITH ENV-WQ 704.05 (c)-(e) AND CONFORM WITH ASTM D3034. PVC JOINT SEALS SHALL CONFORM WITH ASTM D3121.
11. WATER SERVICE TO BE WITNESSED WITH A 2"X4" PAINTED BLUE. SEWER SERVICE ARE TO BE WITNESSED WITH A 2"X4" PAINTED YELLOW, IS STUBBED PRIOR TO BUILDING CONSTRUCTION.
12. CURB BOXES SHOULD BE PLACED IN THE LAWN AREA, OR IF PLACED IN PAVEMENT, A ROAD BOX IS REQUIRED.
13. SEE EXISTING CONDITIONS PLAN FOR DATUM. VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. HORIZONTAL DATUM BASED ON NAD83 STATE PLANE COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS.
14. SEE SEPTIC DESIGN (SHEET 10) FOR MORE INFORMATION.
15. CONTRACTOR TO TRANSFER TEMPORARY BENCHMARK TO A SUITABLE BENCHMARK TO CONTROL CONSTRUCTION. ANY ELEVATION DISCREPANCIES ARE TO BE REPORTED TO THE THE DESIGN ENGINEER IMMEDIATELY.

NOTES:

1.) OWNER & APPLICANT: HOMELESS CENTER FOR STRAFFORD COUNTY
9 ISINGLASS DR P.O. BOX 7306
ROCHESTER, NH 03839-7306

2.) TAX MAP 246, LOT 22

3.) LOT AREA: 838,223 Sq. Ft., 19.24 Ac.

4.) S.C.R.D.: BOOK 4748, PAGE 605

5.) THE INTENT OF THIS PLAN IS TO PROVIDE UTILITY AND ENGINEERING DETAILS OF TAX MAP 246, LOT 22.

6.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON PERIMETER CONTROL (MULCH BERM / FENCE / SILT SOXX).

7.) BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

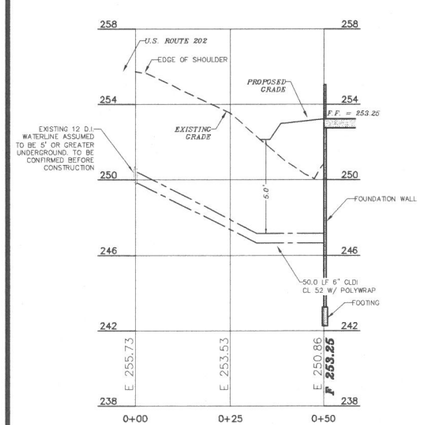
8.) EXISTING AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

VERTICAL SCALE: 1" = 4'

PROFILE VIEW WATERLINE 0+00 - 0+64.50



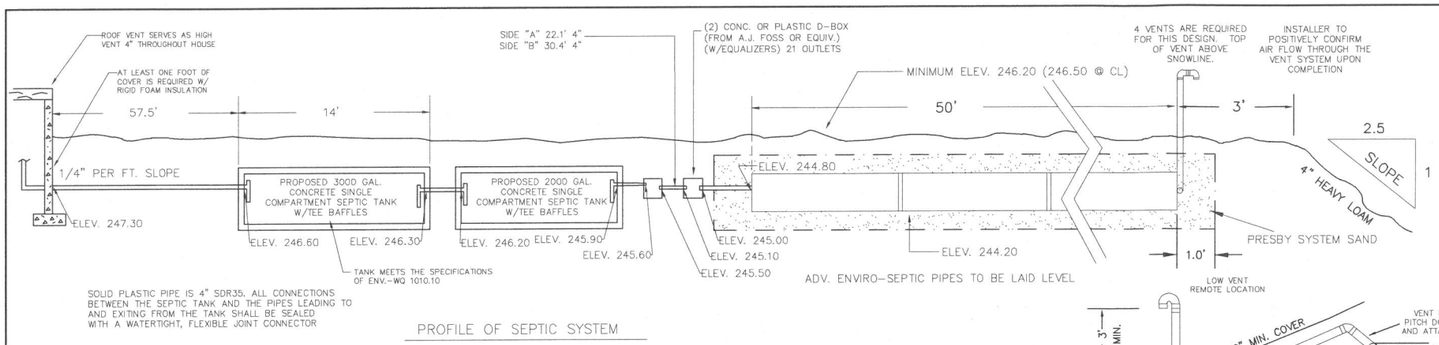
REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

UTILITY PLAN & PROFILE
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

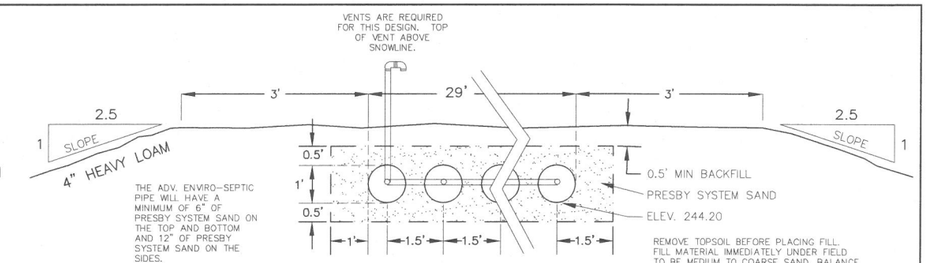
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

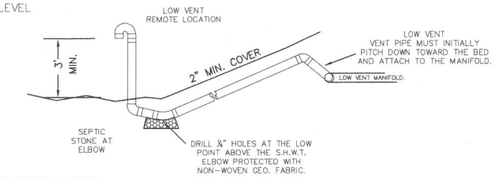
STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 7040
LICENSED
PROFESSIONAL ENGINEER



PROFILE OF SEPTIC SYSTEM



CROSS-SECTION OF DISPOSAL FIELD



REMOTE VENT DETAIL

CALCULATIONS :

10 BEDROOM FACILITY, 3,000 GPD
FOR PURPOSES OF CALCULATIONS EACH BEDROOM WAS CONSIDERED TO HAVE 2 BEDS.
2 EMPLOYEES, 40 GPD
USE 3,000 GAL. SINGLE COMPARTMENT CONCRETE SEPTIC TANK & 2,000 SINGLE COMPARTMENT CONCRETE SEPTIC TANK (FROM SHEA CONCRETE OR EQUIV.)

6 MIN/IN MEASURED PERC RATE
8 MIN/IN DESIGN PERC RATE
1672 – MIN. LENGTH ADV. ENVIRO SEPTIC PIPE REQUIRED
1700 – PROPOSED LENGTH OF ADV. ENVIRO SEPTIC PIPE
170 – TOTAL NUMBER OF 10' SECTIONS OF ADV. ENVIRO SEPTIC PIPE REQUIRED
17 ROWS OF ADV. ENVIRO SEPTIC PIPE, EACH ROW 100' LONG (TWO EACH 50' X 17 ROWS)

ELEVATIONS :

244.00 – HIGH POINT OF LEACH BED
242.20 – S.H.W.T.
N/A – IMPERVIOUS LAYER
244.20 – BOTTOM OF ADV. ENVIRO-SEPTIC PIPES

WETNOTE :

THE WETLAND DELINEATION WAS COMPLETED FEBRUARY, 2018 IN ACCORDANCE WITH THE 1987 CORP OF ENGINEERS WETLAND DELINEATION MANUAL. JURISDICTIONAL WETLANDS WERE IDENTIFIED AND DELINEATED USING THE ROUTINE DETERMINATIONS METHOD AS OUTLINED IN THE MANUAL. THE DELINEATION WAS DONE BY:

CHRISTOPHER R. BERRY, NHDES SUBSURFACE SYSTEMS DESIGNER #1886

CAUTION !!!!!

ANY DEVIATION FROM THIS PLAN IN GRADE OR LOCATION OF THE SEPTIC SYSTEM WHEN CONSTRUCTED WITHOUT THE APPROVAL OF THE DESIGNER AND NH-DES SUBSURFACE SYSTEMS BUREAU MAY RESULT IN THE FAILURE OF THE SYSTEM TO PASS INSPECTION BY NH-DES SUBSURFACE SYSTEMS BUREAU PRIOR TO OPERATION APPROVAL, OR FUNCTION PROPERLY AND SAFELY.

TEST PIT DATA:

TEST PIT #4
OCTOBER 30, 2020

0–4" 10YR 4/3, FINE SANDY LOAM, GRANULAR, FRIABLE
4–22" 2.5Y 5/4, FINE SANDY LOAM, GRANULAR, FRIABLE
22–52" 7.5YR 5/4, FINE SANDY LOAM, GRANULAR, BLOCKY IN PLACE FRIABLE IN HAND

E.S.H.W.T. @ 22"
NO LEDGE
NO GW
PERC = 6 MIN/ IN

TEST PIT #5
OCTOBER 30, 2020

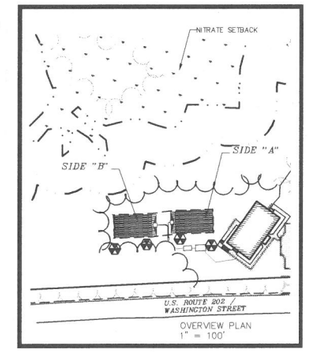
0–5" 10YR 4/3, FINE SANDY LOAM, GRANULAR, FRIABLE
5–22" 7.5YR 4/6, FINE SANDY LOAM, BLOCKY, FRIABLE
22–52" 10YR 4/6, FINE SANDY LOAM, GRANULAR, FRIABLE

E.S.H.W.T. @ 22"
NO LEDGE
NO GW
PERC = 6 MIN/ IN

SOIL DATA :

CfB – CHARLTON FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES
CfD – CHARLTON FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES
CsC – CHARLTON FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES, VERY STONY
GsC – GLOUCESTER VERY STONY FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES
HkC – HOLLIS-CHARLTON VERY ROCKY FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES
LrA – LEICESTER-RIDGEBURY FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES
Ru – RUMNEY FINE SANDY LOAM

SEE WEBSOIL USDA-NRCS



OVERVIEW PLAN
1" = 100'

PLAN INTENT :

THE SEPTIC SYSTEM IS TO BE CONSTRUCTED WITH THE BOTTOM OF THE LEACH BED IS AT THE HIGH POINT OF THE EXISTING LAND.
IN THE EVENT OF LEACH BED FAILURE, IT MAY BE REBUILT IN PLACE WITH NHDES APPROVAL.

NOTES:

1.) OWNER: HOMELESS CENTER FOR STRAFFORD COUNTY
9 ISINGLASS DR P.O. BOX 7306
ROCHESTER, NH 03839-7306

2.) DESIGNER: CHRISTOPHER R. BERRY, PERMIT #1886
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825

3.) TAX MAP 246, LOT 22

4.) LOT AREA: 838,223 Sq. Ft., 19.24 Ac.

5.) S.C.R.D. BOOK 4748, PAGE 605

6.) SUBDIVISION STATUS:

7.) FOUNDATION DRAINS WILL START AT LEAST 15' FROM THE LEACH FIELD, AND AT LEAST 5' FROM THE SEPTIC TANK.

8.) THERE IS NO SURFACE WATER OR VERY POORLY DRAINED SOILS WITHIN 50', OR VERY POORLY DRAINED SOILS WITHIN 75' OF THE PROPOSED SEPTIC SYSTEM.

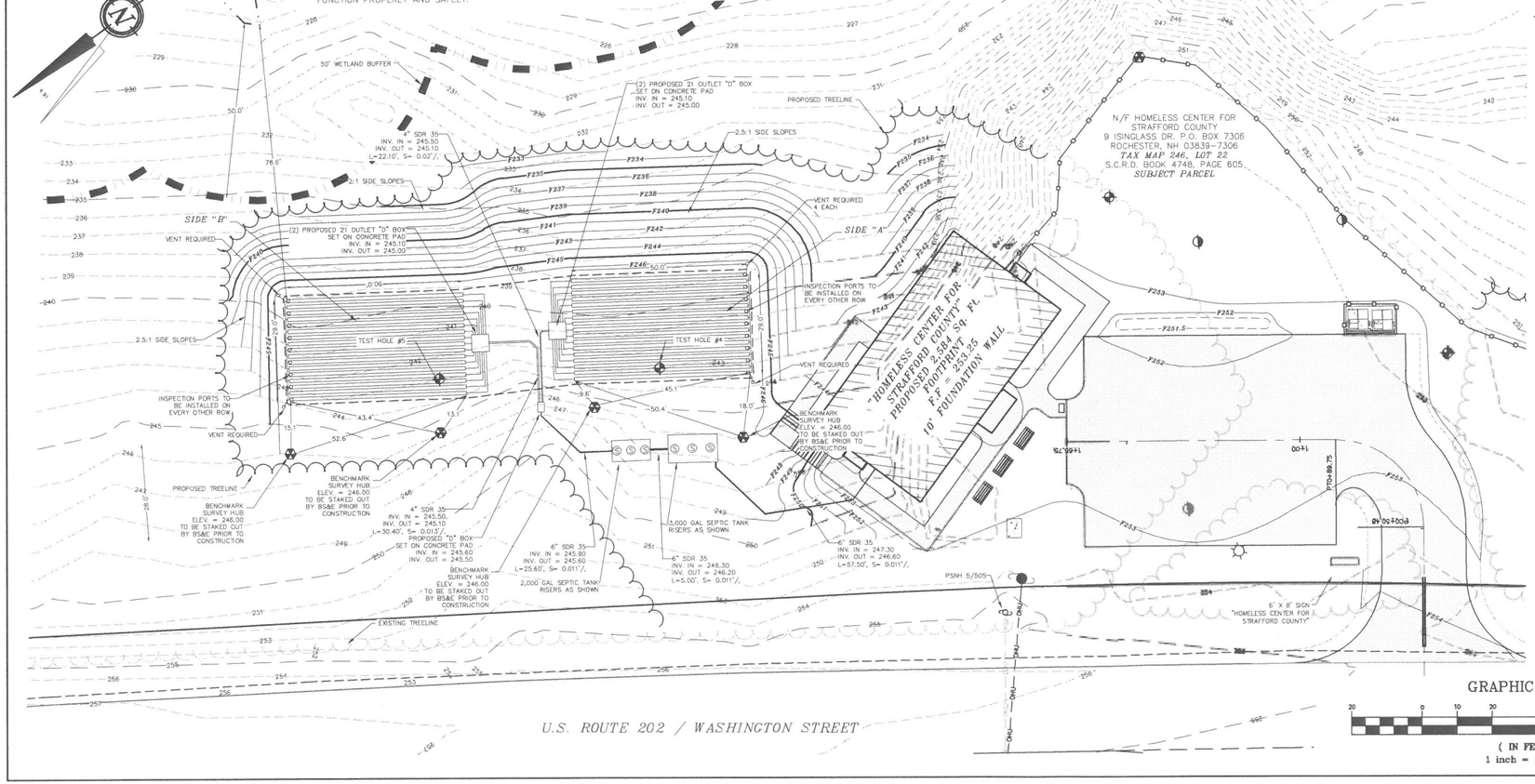
9.) THIS DESIGN DOES NOT ALLOW FOR THE USE OF A GARBAGE GRINDER. IF A GRINDER IS TO BE INCORPORATED A LARGER SEPTIC TANK WILL BE REQUIRED.

10.) THIS DESIGN DOES NOT ALLOW FOR THE ACCEPTANCE OF WATER TREATMENT BACKWASH. IF A WATER TREATMENT SYSTEM IS TO BE INCORPORATED A LARGER LEACHFIELD WILL BE REQUIRED.

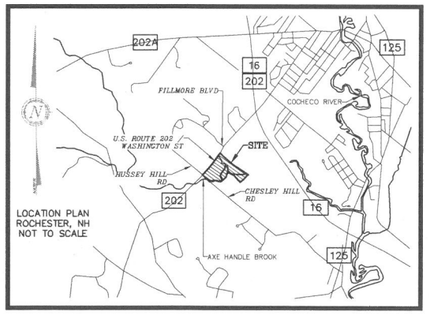
11.) IN THE EVENT A DISCREPANCY IS FOUND ON THIS PLAN, THE DESIGNER SHOULD BE CONTACTED IMMEDATIELY AT 603-332-2863 TO DISCUSS AN APPROPRIATE PLAN OF ACTION.

12.) THIS IS NOT A BOUNDARY SURVEY.

13.) THERE IS NO KNOWN BURIAL SITE OR CEMETERY ON THE LOT WITHIN 100' OF ANY COMPONENT OF THE ISDS.



GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.



LOCATION PLAN
ROCHESTER, NH
NOT TO SCALE

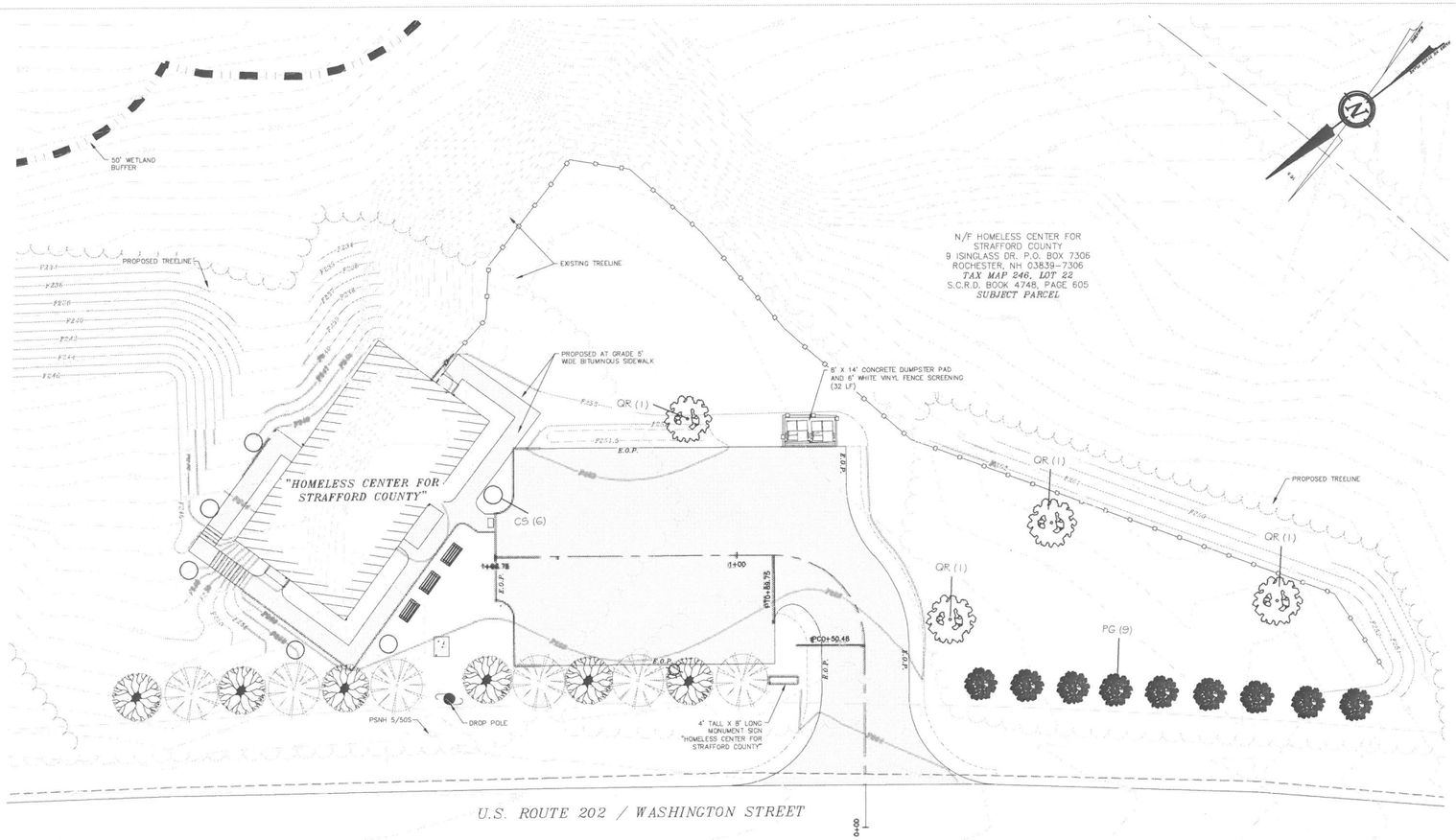
REVISION	DATE	DESCRIPTION

ADVANCED ENVIRO
SEPTIC DESIGN
FOR
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14293
LICENSED
PROFESSIONAL ENGINEER

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT RD.
BARRINGTON, N.H. 332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 – 042



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NOTES:

1. CALL DIG SAFE PRIOR TO BEGINNING WORK. (1-888-344-7233). THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF THE SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.
2. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS PRIOR TO CONSTRUCTION BIDDING.
3. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS. VARIATIONS IN QUANTITIES ARE TO BE APPROVED BY THE DESIGN ENGINEER.
4. PROVIDED SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING CONDITIONS.
5. ALL PLANT MATERIAL INSTALLED SHALL MEET THE SPECIFICATIONS OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN
6. ALL PLANT MATERIALS SHALL BE FREE FROM INSECTS AND DISEASE.
7. ALL PLANTINGS SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE FROM OWNER.
8. ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING AND NEWLY PLANTED TREES AND SHRUBS DURING THE CONSTRUCTION PROCESS. WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING (SNOW OR EQUAL) AROUND EXISTING TREES AND SHRUBS THAT COULD BE IMPACTED BY THE CONSTRUCTION PROCESS. STORAGE OF CONSTRUCTION EQUIPMENT, CONSTRUCTION MATERIALS, SNOW STORAGE AND OR VEHICLE PARKING SHALL NOT BE PERMITTED WITHIN THE DRIP LINE OF TREES OR TWENTY FEET WHICH EVER IS GREATER.
10. NEW PLANTINGS SHALL BE INSTALLED PER PROJECT DRAWINGS AND SPECIFICATION THAT INCLUDE FERTILIZATION AND MULCHING AS REQUIRED.
11. ALL SHRUB BEDS AND TREE PITS SHALL BE MULCHED WITH 3" CLEAN SHREDDED BLACK MULCH
12. WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR GROUND COVER AND PERENNIAL BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPHAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.
13. MAINTENANCE OF NEW PLANTINGS AND LAWNS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND OR LANDSCAPE SUBCONTRACTOR UNTIL ACCEPTANCE BY THE OWNER. RESPONSIBILITIES SHALL INCLUDE WATERING WEEDING AND MOWING AS NECESSARY. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, REPLACEMENT MATERIAL SHALL BE GUARANTEED FOR AND ADDITIONAL YEAR FROM TIME OF INSTALLATION.
14. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EROSION CONTROL MEASURES DURING THE CONSTRUCTION PHASE AND UNTIL ALL AREAS HAVE BEEN STABILIZED AND ACCEPTED BY THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE WEEKLY INSPECTIONS OF EROSION MEASURE AND IMMEDIATELY AFTER STORM EVENTS AND REPAIR AS NECESSARY.
15. THE GENERAL CONTRACTOR AND OR THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL THREE GUYING MATERIAL ONCE PLANT MATERIAL HAS BEEN ESTABLISHED. (MINIMUM OF ONE GROWING SEASON). ALL TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVED ONCE STABILIZATION OF DISTURBANCE HAS BEEN ACCEPTED BY OWNER.
16. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR A MINIMUM OF TWO MOWINGS FOR ALL TURF AREAS OR UNTIL ACCEPTANCE BY THE OWNER. A MINIMUM UNIFORM 75% CATCH OF TURF IS REQUIRED FOR ACCEPTANCE.
17. ALL PLANTINGS SHALL BE WATERED REGULARLY DURING THEIR FIRST YEAR AND MAINTAINED PERMANENTLY IN GOOD GROWING CONDITION AS AN EFFECTIVE VISUAL SCREEN.
18. SHRUBS OR TREES WHICH DIE SHALL BE REPLACED WITHIN ONE GROWING SEASON WITH NEW SHRUBS OR TREES TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE LANDSCAPING REQUIREMENTS.
19. ALL REQUIRED LANDSCAPING SHALL BE INSTALLED BEFORE OCCUPANCY, OR WITHIN SIX MONTHS IF OCCUPANCY OCCURS DURING WINTER CONDITIONS.
20. TREES ARE TO BE 6' TALL AT PLANTING.
21. ALL PLANT STOCK SHALL CONFORM TO ANSI Z260.1 – NURSERY STOCK, LATEST EDITIONS (AMERICAN ASSOCIATION OF NURSERYMEN, INC.)
22. 4" AGED PINEBARK MULCH AND A WEED BARRIER (TY-PAR FABRIC OR APPROVED EQUAL) SHALL BE APPLIED TO ALL SHRUB AND GROUND COVER BEDS. INSTALL WEED BARRIER AS PER MANUFACTURERS RECOMMENDATIONS.
23. PLANT-PIT BACK-FILL SHALL BE MIXED AT A RATE OF 7 PARTS OF TOPSOIL TO 2 PARTS OF DEHYDRATED COW MANURE. SLOW RELEASE FERTILIZER SHALL BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS. USE EXISTING ON-SITE TOPSOIL AS PART OF BACK FILL WHEN AVAILABLE.
24. ALL LANDSCAPED AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUNDCOVER SHALL BE RESTORED WITH SEED OR SOD AS INDICATED ON PLANS.
25. TOPSOIL WILL BE TESTED FOR FERTILIZATION REQUIREMENTS, AND SLOW RELEASE ENVIRONMENTALLY FRIENDLY FERTILIZER WILL BE APPLIED AT THE RECOMMENDED RATES.
26. ALL DISTURBED WETLAND BUFFER AREAS, EXCEPT FOR AREAS THAT ARE PART OF THE DRAINAGE SYSTEM, ARE TO BE RESEEDED WITH A CONSERVATION SEED MIX AND ONLY MOWED TWICE PER YEAR.
27. ALL PLANT SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER.
28. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, UPON DELIVERY OR AT THE JOB SITE WHILE WORK IS ONGOING TO CONFORMITY TO SPECIFIED QUALITY, SIZE AND VARIETY.
29. PLANTS FURNISHED IN CONTAINERS SHALL HAVE THE ROOTS WELL ESTABLISHED IN THE SOIL MASS AND SHALL HAVE AT LEAST ONE (1) GROWING SEASON. ROOT-BOUND PLANTS OR INADEQUATELY SIZED CONTAINERS TO SUPPORT THE PLANT MAY BE DEEMED UNACCEPTABLE.
30. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR NO LESS THAN ONE FULL YEAR FROM THE TIME OF INSTALLATION. DURING THIS TIME, THE OWNER SHALL MAINTAIN ALL PLANT MATERIALS IN THE ABOVE MANNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE PLANTS TO ENSURE PROPER CARE. IF THE CONTRACTOR IS DISSATISFIED WITH THE CARE GIVEN, HE SHALL IMMEDIATELY, AND IN SUFFICIENT TIME TO PERMIT THE CONDITION TO BE RECTIFIED, NOTIFY THE OWNER IN WRITING OR OTHERWISE FORFEIT HIS CLAIM.
31. BY THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL HAVE REPLACED ANY PLANT MATERIAL THAT IS MISSING, NOT TRUE TO SIZE AS SPECIFIED, THAT HAS DIED, THAT HAS LOST NATURAL SHAPE DUE TO DEAD BRANCHES, EXCESS PRUNING OR INADEQUATE OR IMPROPER CARE, OR IS, IN THE OPINION OF THE OWNER, IN UNHEALTHY OR UNSIGHTLY CONDITION.
32. THE CONTRACTOR IS TO USE TEMPORARY MEASURES FOR WATERING PLANTS DURING THE ESTABLISHMENT PERIOD. INCLUDING CONNECTING TEMPORARY HOSES TO THE STRUCTURE WATER SUPPLY LINE AND UTILIZING SPRINKLERS UNTIL 85% GROWTH OCCURS.

PLANTING NOTES:

1. CONTRACTOR SHALL OBTAIN APPROVAL FROM L.A. PRIOR TO PURCHASING &/OR INSTALLING SUBSTITUTE PLANT MATERIAL PRIOR TO PURCHASE OF ANY SUBSTITUTE MATERIALS.

2. CONSTRUCTION ACCESS WILL BE AS DIRECTED BY L.A. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ACCESS ROUTE AND ALL AREAS DISTURBED BY PLANTING OPERATIONS UPON COMPLETION OF CONSTRUCTION OPERATIONS, AT NO ADDITIONAL COST TO THE OWNER.

3. LAYOUT OF ALL PLANTING BEDS AND LOCATION OF PLANTS TO BE APPROVED BY L.A. ON SITE PRIOR TO CONSTRUCTION AND INSTALLATION.

4. CONTRACTOR TO REMOVE ALL DEBRIS GENERATED BY PLANT INSTALLATION. DEBRIS TO BE DISPOSED OF IN A LEGAL MANNER.

5. ALL PLANT MATERIAL SHALL BE GUARANTEED TO BE IN GOOD, HEALTHY & FLOURISHING CONDITION FOR ONE YEAR FROM THE DATE OF FINAL INSTALLATION APPROVAL BY L.A. CONTRACTOR SHALL REPLACE, WITHOUT COST TO OWNER, AND AS SOON AS WEATHER CONDITIONS PERMIT, ALL DEAD AND NON-FLOURISHING PLANTS AS DETERMINED BY THE L.A. REPLACEMENT PLANTS SHALL BE BE GUARANTEED IDENTICALLY TO ORIGINAL PLANTS, TIME PERIOD COMMENCING FROM DATE OF REPLACEMENT PLANTING APPROVAL BY L.A.

6. ALL BEDS TO BE MULCHED WITH 3" DEPTH SHREDDED BARK MULCH UNLESS NOTED OTHERWISE

7. CONTRACTOR TO PROVIDE NECESSARY TEMPORARY IRRIGATION IF NEEDED BASED ON TIME OF YEAR THE PROJECT IS IMPLEMENTED.

8. ALL PLANT MATERIAL TO COMPLY WITH THE CITY OF DOVER'S SITE REVIEW REGULATIONS, 149-14(G), SUCH THAT THERE SHALL BE DECIDUOUS SHADE TREES PLANTED 40 FEET O.C. ALONG THE PERIMETERE OF THE PARKING LOTS AND SHRUBS PLANTED 5 FEET O.C. WITHIN THE PERIMETER BUFFER. SEE PLANT LIST FOR SPECIES AND SIZE OF PLANTS.

TEMPORARY WATERING NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR MAKING SURE ALL PLANT MATERIAL HAS ADEQUATE WATER GURING THE ESTABLISHMENT PERIOD.

2. THE USE OF GATOR BAGS, SOAKER HOSE, HAND WATERING AND OTHER TECHNIQUES SHOULD BE USED TO ASSURE PROPER HYDRATION OF THE PLANTINGS IS MAINTAINED.

3. TEMPORARY IRRIGATION SYSTEMS CAN BE SET UP TO ASSIST IN WATERING ACTIVITIES.

PLANTING SCHEDULE
Washington Street
Botanical Name / Common Name

Trees	Size	Qty	Label
Quercus rubra / Red Oak	3" Cal.	4	QR
Platanus Acerifolia/ London Plane Tree	3" Cal.	6	PA
Acer Rubrum / Red Maple	3" Cal.	6	AR
Picea glauca / White Spruce	3" Cal.	9	PG
Shrubs			
Cornus sanguina 'Winter Flame' / Winter Flame Dogwood	2-3' B&B	6	CS

terrain
planning & design llc

General Plant Maintenance Guide

General Plant Bed Maintenance:

- All plant maintenance should be performed by a qualified horticulturalist or licensed arborist. Cleaning the dead material out of the planting bed in the fall helps keep litter from building up around the plants and in some cases killing the plants. Watering the first year during dry periods will help get the plants established. Mulching every year is not necessary. Raking the old mulch and turning it over is all that is needed. When necessary only install one inch of mulch and do not place the mulch closer than 3" to the trunks or stems of woody plants.

Trees

- The first year watering during dry periods will be necessary.
- 3" inches of mulch maybe used. The mulch should be kept 3 inches from the trunk.
- Fertilizing is not necessary for the first year. Fertilizing in subsequent years only when and if the foliage is looking weak.
- Fertilization should occur prior to Mart 31st or after trees have dropped their leaves for the year.
- Prune dead wood once a year.
- Depending on the amount of compaction the bed area receives, deep root aeration may be needed over time

Woody Shrubs

- The first year watering during dry periods will be necessary.
- 3" inches of mulch maybe used. The mulch should be kept 3 inches from the stems
- Fertilizing is not necessary for the first year. Fertilizing in subsequent years only when and if the foliage is looking weak.
- Fertilization should occur prior to Mart 31st or after shrubs have dropped their leaves or gone dormant for the year.
- Prune dead wood once a year.

Grasses:

- Grasses only need to be clipped back at the end of the growing season and all the clippings removed from the area.
- Do not over mulch. Too much mulch will prohibit the grass from developing into a strong clump.

Perennials

- All perennials need to be pruned back after the first or second hard frost. A two-step method; first dead head all the flower heads and let drop to the ground for re-seeding. Second cut the stems back to 3" above the ground and remove the stem and leaf litter and place in compost. Do not over mulch. Too much mulch will prohibit the growth and development
- Fertilizing perennials once in the spring with a low phosphorus fertilizer will help the plants to get started in the spring.

www.terrainplanning.com 311 kast hill road hopkinton nh 03229 T 603-491-2322

terrain
planning & design llc
311 kast hill road
hopkinton, nh 03229
603. 491. 2322
terrainplanning.com

WASHINGTON STREET

Site Location:
Washington Street
Rochester, NH
Tax Map 246, Lot 22

Prepared For:
Berry Surveying & Engineering
335 Second Crown Point Rd
Barrington, NH 03825

LANDSCAPE PLAN

DATE:

SCALE: 1" = 20'

PROJECT #: 19-042

Drawn By: ID

Checked By: ERB

REVISIONS: DATE:
Issued for Client Review

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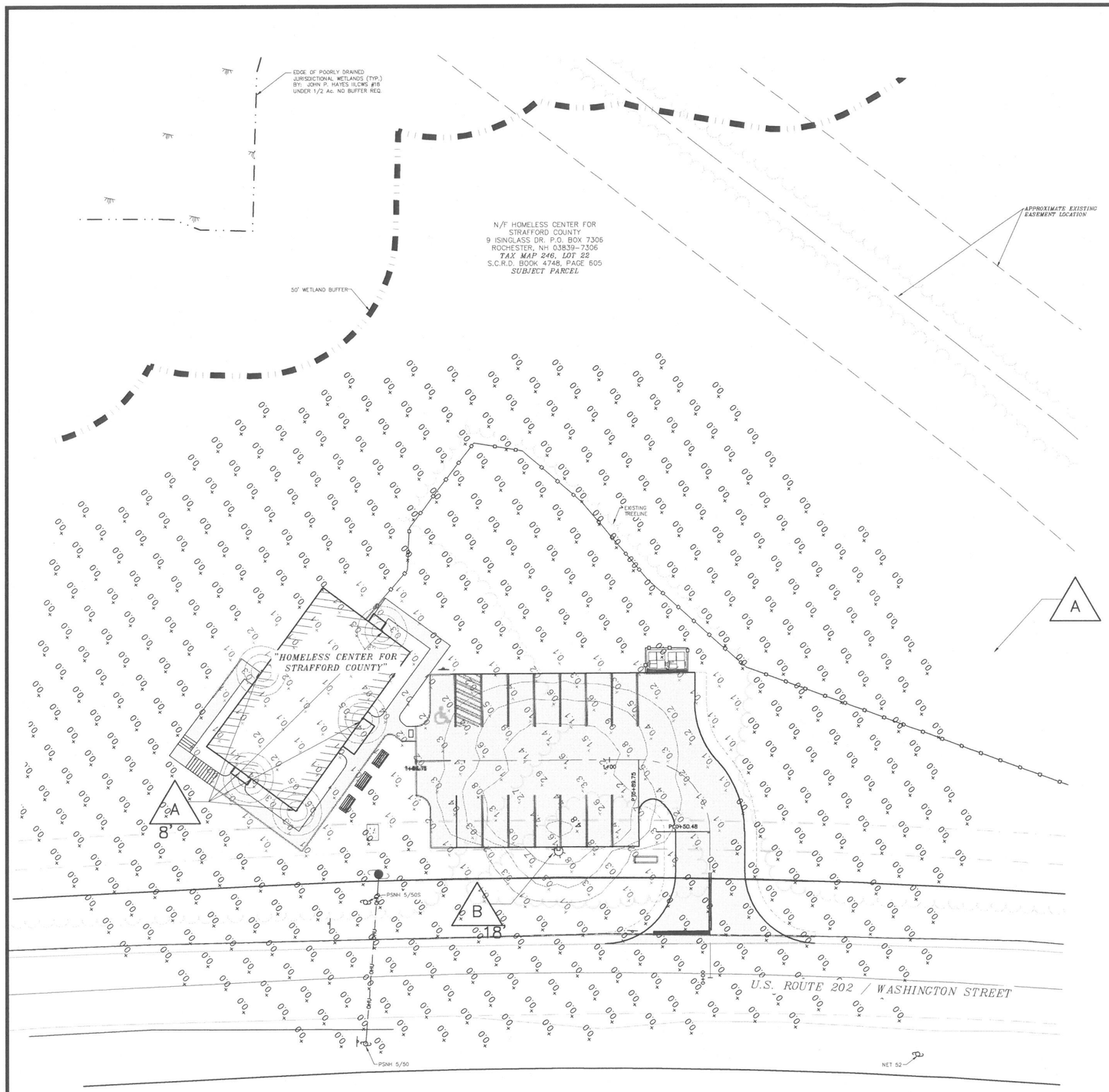
SHEET 11 OF 24

LICENSED LANDSCAPE ARCHITECT
ERIC R. BUCK
078
STATE OF NEW HAMPSHIRE



NOTES:

1. OWNER: HOMELESS CENTER FOR STRAFFORD COUNTY
   9 ISNGLASS DR P.O. BOX 7306
   ROCHESTER, NH 03839-7306
2. TAX MAP 246, LOT 32
3. LOT AREA: 838,223 Sq. Ft., 19.24 Ac.
4. S.C.R.D. BOOK 4748, PAGE 605
5. THE INTENT OF THIS PLAN IS TO PROVIDE THE LIGHTING SCHEME FOR THE PROPOSED SITE PLAN.
6. ALL LAMPS ARE SHOWN ON THE SITE PLAN WITH LOCATION, TYPE AND HEIGHT.
7. SEE CONSTRUCTION DETAILS FOR PRODUCT CUT SHEETS.
8. LAMP "A" MOUNTED 8' ON BUILDING
   LAMP "B" MOUNTED 18' ABOVE THE GROUND

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	A MOUNTED @ 8'	5	Lithonia Lighting	ODSL10 SRC	CRAFTSTON WALL MOUNTED SMALL DECORATIVE LANTERN, ONE LAMP 13W SPIRAL COMPACT FLUORESCENT, WHITE GLASS DIFFUSER 4.25" DIA. X 6.65" HIGH, ELECTRONIC BALLAST	ONE 13-WATT T4 SPIRAL COMPACT FLUORESCENT, VERTICAL BASE UP POSITION.	1	ODSL10_SRC.ies	900	1	12.6
	B MOUNTED @ 18'	1	Lithonia Lighting	KAD 150S R4 HS	Area Luminaire, 150W HPS, R4 Reflector, Full Cutoff, Houseside Shield MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE 150-WATT CLEAR ET-23.5 HIGH PRESSURE SODIUM, HORIZONTAL POSITION.	1	KAD_150S_R4_HS.ies	16000	1	189

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

LIGHTING PLAN

LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE: 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 – 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
LICENSED
PROFESSIONAL ENGINEER

LEGEND:

- DRILL HOLE ~FND~
- IRON PIPE ~FND~
- IRON BOUND ~FND~
- NH HIGHWAY BOUND ~FND~
- SIGNAGE
- UTILITY POLE
- GUY WIRE
- OVERHEAD UTILITIES LINE
- POORLY DRAINED WETLAND LINE
- 50' WETLAND SETBACK
- SHOULDER
- CENTER LINE
- PLOW LINE
- CLEAR ZONE LINE

S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
TYP. TYPICAL
FND FOUND
PL PROPERTY LINE
EL EASEMENT LINE
R.O.W. RIGHT OF WAY
E.O.P. EDGE OF PAVEMENT
SSL (W) SINGLE SOLID LINE (WHITE)
DSL (Y) DOUBLE SOLID LINE (YELLOW)

NOTES:

1.) OWNER: HOMELESS CENTER FOR STRAFFORD COUNTY
9 ISNGLASS DRIVE P.O. BOX 7306
ROCHESTER, NH 03839-7306

2.) TAX MAP 246, LOT 22

3.) LOT AREA: 838,223 Sq. Ft., 19.24 ACRES

4.) S.C.R.D. BOOK 4748, PAGE 605

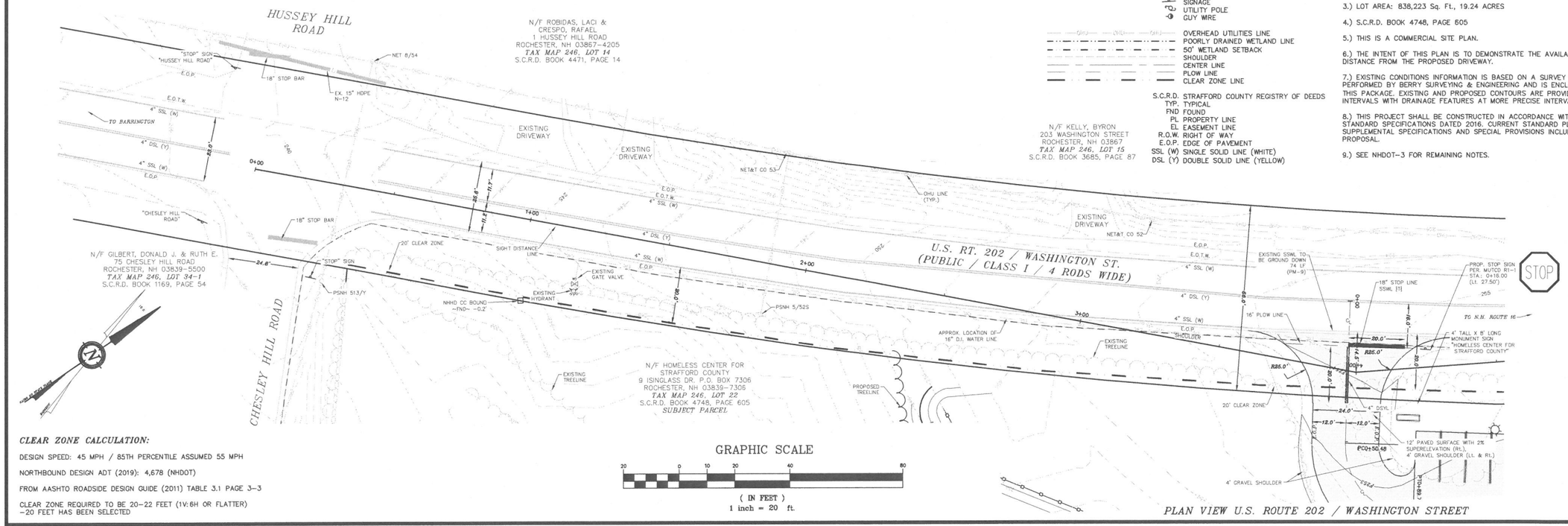
5.) THIS IS A COMMERCIAL SITE PLAN.

6.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE AVAILABLE SIGHT DISTANCE FROM THE PROPOSED DRIVEWAY.

7.) EXISTING CONDITIONS INFORMATION IS BASED ON A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING AND IS ENCLOSED IN THIS PACKAGE. EXISTING AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.

8.) THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS DATED 2016. CURRENT STANDARD PLANS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

9.) SEE NHDOT-3 FOR REMAINING NOTES.



PLAN VIEW U.S. ROUTE 202 / WASHINGTON STREET

CLEAR ZONE CALCULATION:

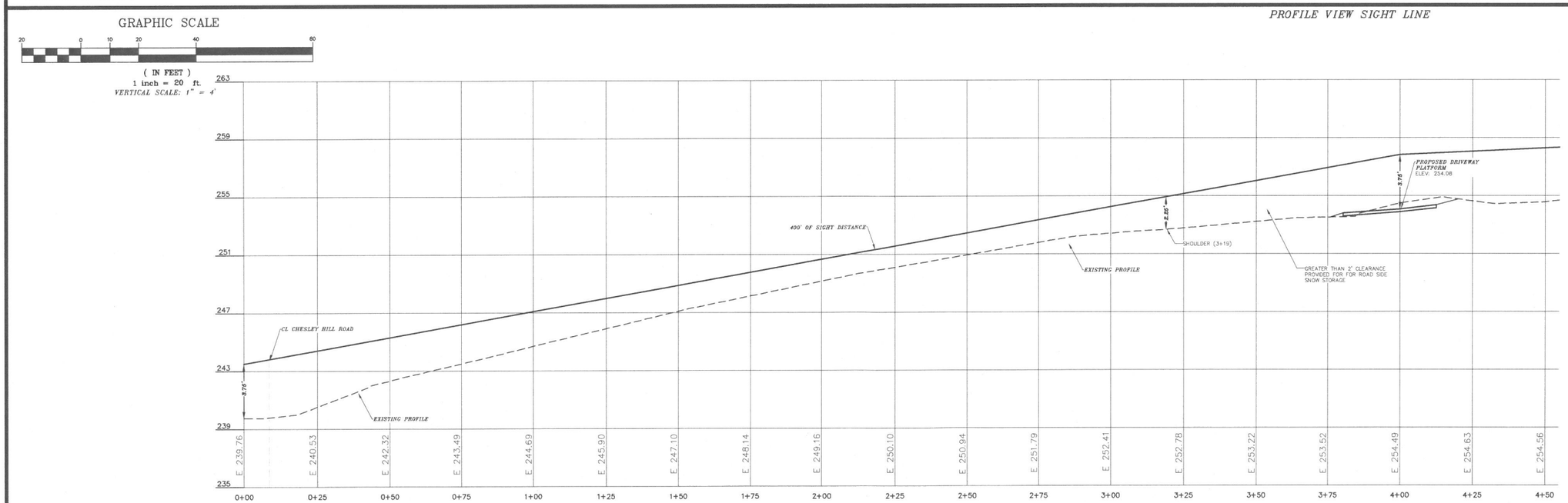
DESIGN SPEED: 45 MPH / 85TH PERCENTILE ASSUMED 55 MPH

NORTHBOUND DESIGN ADT (2019): 4,678 (NHDOT)

FROM AASHTO ROADSIDE DESIGN GUIDE (2011) TABLE 3.1 PAGE 3-3

CLEAR ZONE REQUIRED TO BE 20-22 FEET (1V:6H OR FLATTER)
-20 FEET HAS BEEN SELECTED

PROFILE VIEW SIGHT LINE



NHDOT-1

REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

NHDOT ACCESS PLAN NORTH BOUND
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 7142
LICENSED
PROFESSIONAL ENGINEER

NOTES:

1.) OWNER: HOMELESS CENTER FOR STRAFFORD COUNTY
9 ISNGLASS DRIVE P.O. BOX 7306
ROCHESTER, NH 03839-7306

2.) TAX MAP 246, LOT 22

3.) LOT AREA: 838,233 Sq. Ft., 19.24 ACRES

4.) S.C.R.D. BOOK 4748, PAGE 605

5.) THIS IS A COMMERCIAL SITE PLAN.

6.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE AVAILABLE SIGHT DISTANCE FROM THE PROPOSED DRIVEWAY.

7.) EXISTING CONDITIONS INFORMATION IS BASED ON A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING AND IS ENCLOSED IN THIS PACKAGE. EXISTING AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS WITH DRAINAGE FEATURES AT MORE PRECISE INTERVALS.

8.) THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS DATED 2016. CURRENT STANDARD PLANS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

9.) SEE NHDOT-3 FOR ENTRANCE DETAILS.

GRAPHIC SCALE

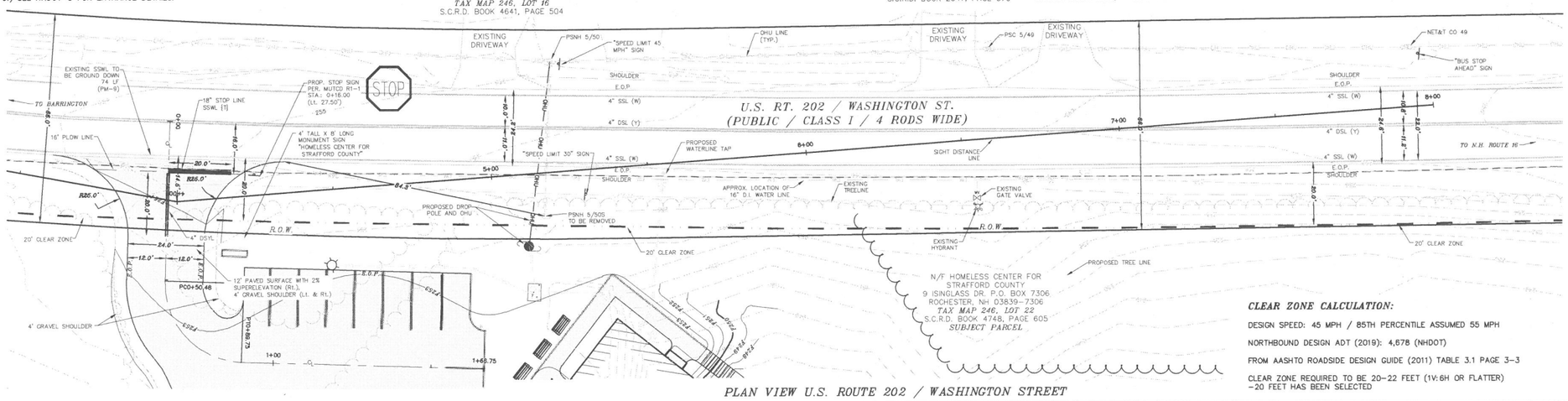
20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

LEGEND:

- DRILL HOLE ~FND~
- IRON PIPE ~FND~
- IRON BOUND ~FND~
- NH HIGHWAY BOUND ~FND~
- SIGNAGE
- UTILITY POLE
- GUY WIRE
- OVERHEAD UTILITIES LINE
- POORLY DRAINED WETLAND LINE
- 50' WETLAND SETBACK
- SHOULDER
- CENTER LINE
- PLOW LINE
- CLEAR ZONE LINE

S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
TYP. TYPICAL
FND FOUND
PL PROPERTY LINE
EL EASEMENT LINE
R.O.W. RIGHT OF WAY
E.O.P. EDGE OF PAVEMENT
SSL (W) SINGLE SOLID LINE (WHITE)
DSL (Y) DOUBLE SOLID LINE (YELLOW)



PLAN VIEW U.S. ROUTE 202 / WASHINGTON STREET

CLEAR ZONE CALCULATION:

DESIGN SPEED: 45 MPH / 85TH PERCENTILE ASSUMED 55 MPH

NORTHBOUND DESIGN ADT (2019): 4,678 (NHDOT)

FROM AASHTO ROADSIDE DESIGN GUIDE (2011) TABLE 3.1 PAGE 3-3

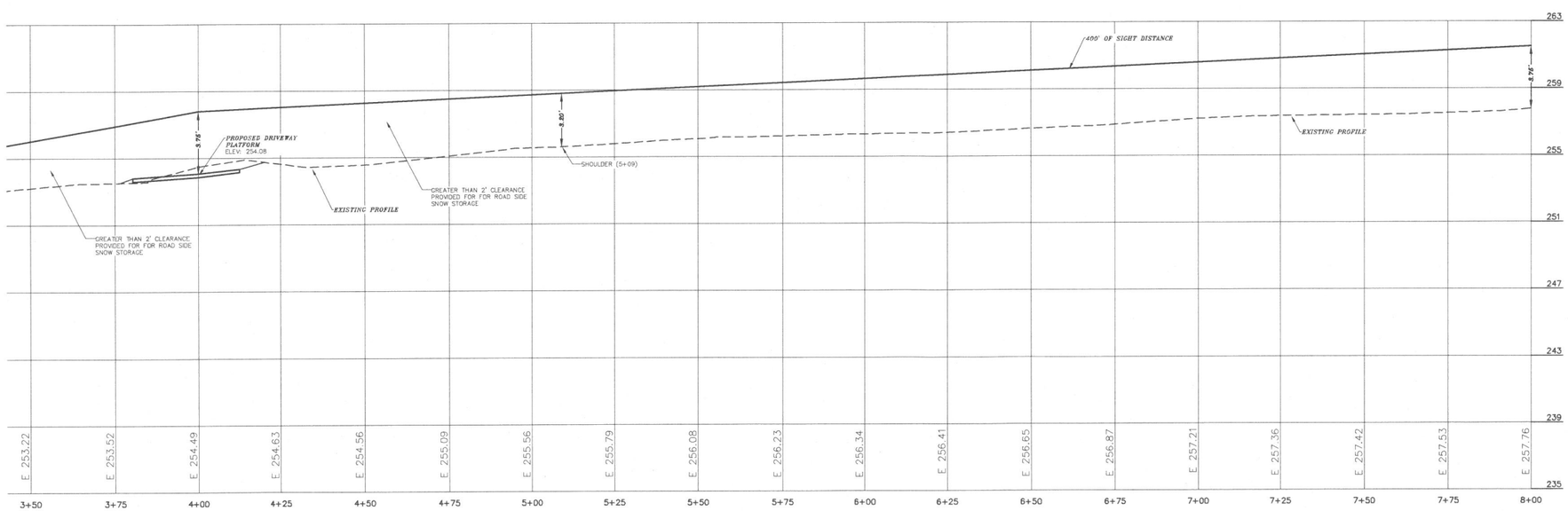
CLEAR ZONE REQUIRED TO BE 20-22 FEET (1V:6H OR FLATTER)
-20 FEET HAS BEEN SELECTED

PROFILE VIEW SIGHT LINE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.
VERTICAL SCALE: 1" = 4'



REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

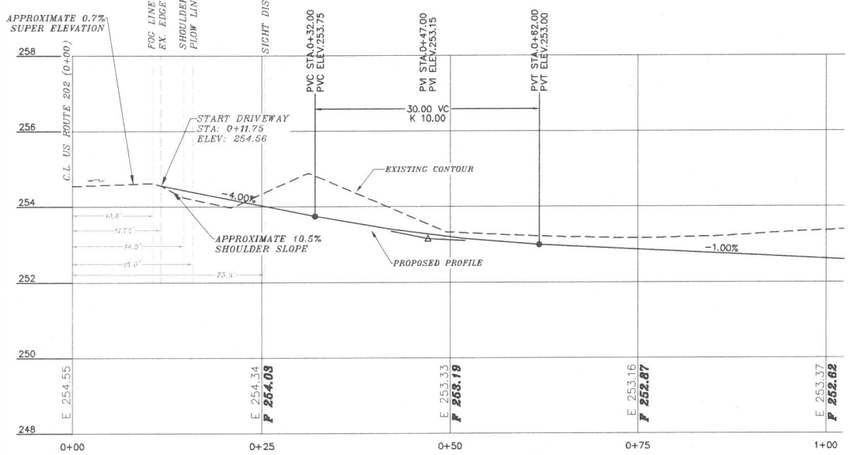
NHDOT ACCESS PLAN SOUTH BOUND
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 7047
LICENSED
PROFESSIONAL ENGINEER

NHDOT-2



GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.
VERTICAL SCALE: 1" = 2'

PROFILE VIEW DRIVEWAY

DETAIL-1

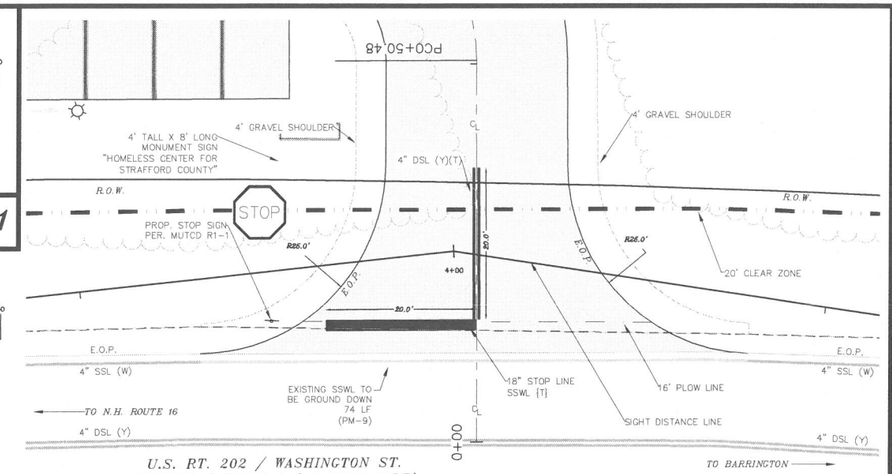
GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

DRIVEWAY PAVEMENT MARKINGS & SIGNAGE DETAILS

DETAIL-2



U.S. RT. 202 / WASHINGTON ST.
(PUBLIC / CLASS I / 4 RODS WIDE)

DETAIL-2

PM-9 GENERAL NOTES

1.) EDGELINE DETAILS ARE SHOWN FOR MAINLINE ROADWAYS WITHOUT TURN LANE. THE PRESENCE OF TURN LANES MAY REQUIRE DIFFERENT EDGELINE TREATMENTS.

2.) EDGELINES ON THE SIDE ROADS, WHEN CALLED FOR, SHALL FOLLOW THE ABOVE MAINLINE TYPICALS. EDGELINES SHALL NOT BE CONTINUOUS AROUND THE MAINLINE/SIDE ROAD RADIUS. EDGELINES SHALL END AT STOP BARS.

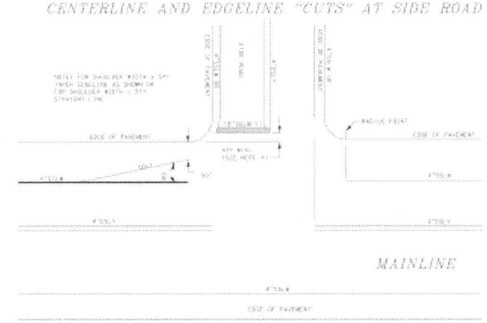
3.) CENTERLINE AND EDGELINE SHALL BE CONTINUOUS PAST RESIDENTIAL DRIVEWAYS. CENTERLINE AND EDGELINE SHALL BREAK FOR COMMERCIAL DRIVES W/TRAFFIC CONTROLS, MINOR SIDE ROADS, OR PRIVATE INTERSECTIONS.

4.) LOCATION OF THE STOP LINE MAY VARY DUE TO INTERSECTION SIGHT DISTANCE AND VEHICLE TURNING RADIUS AND MAY NOT ALWAYS COINCIDE WITH THE LOCATION OF THE STOP SIGN.

5.) IF THERE IS NO EDGELINE, END STOP BAR 12" FROM EDGE OF PAVEMENT.

6.) STOP BARS, WORDS, LANE LINES, SYMBOLS AND ARROWS SHALL BE THERMOPLASTIC (T).

CENTERLINE AND EDGELINE "CUTS" AT SIDE ROAD



DETAIL-3

NOTES CONT.:

10.) THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION

11.) WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.

NOTES CONT.:

12.) THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.

13.) AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

14.) THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R & R).

15.) ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.

NOTES CONT.:

16.) ALL SYMBOLS, WORDS, TRANSVERSE MARKINGS (STOP BARS, CROSSWALK LINES, AND RAILROAD SYMBOLS), LANE LINES, AND ALL OTHER MARKINGS NOTED WITH (T) SHALL BE THERMOPLASTIC.

17.) ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM PLACED AND SEEDED. THE LOAM SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.

18.) THE CONTRACTOR SHALL CONTACT THE NHDOT BUREAU OF TRAFFIC AT (603) 271-2291 ONE WEEK PRIOR TO PAVEMENT MARKINGS.

19.) ALL PAVEMENT MARKINGS TO BE PAINTED TO NHDOT STANDARD NO. PM-9.

20.) THE SPEED LIMIT ON US ROUTE 202 IS 45 MPH.

NHDOT-3

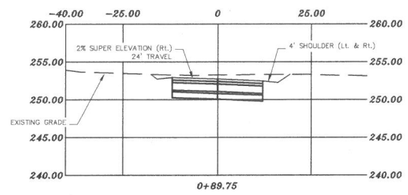
REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

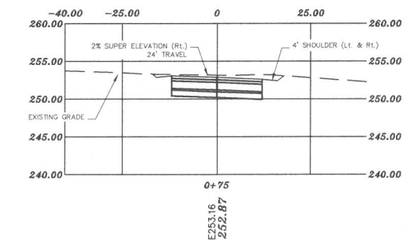
NHDOT DETAILS
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

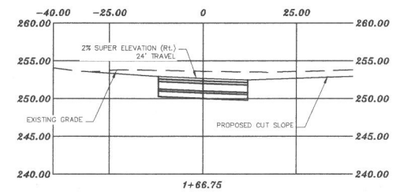
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

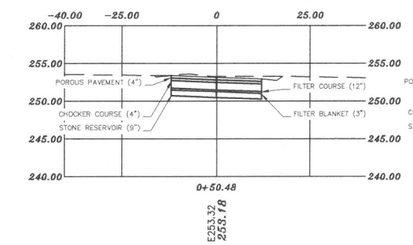
SCALE : 1 IN. EQUALS 10 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

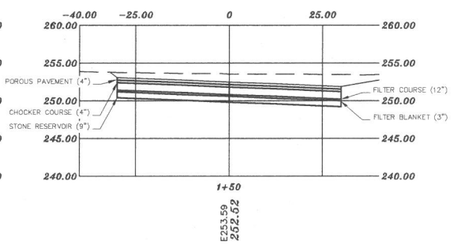
STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
LICENSED
PROFESSIONAL ENGINEER

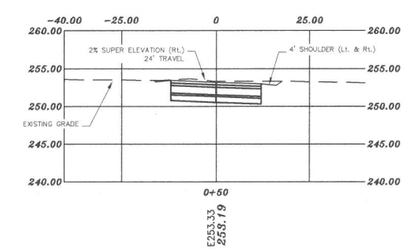


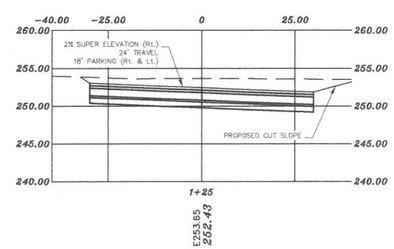


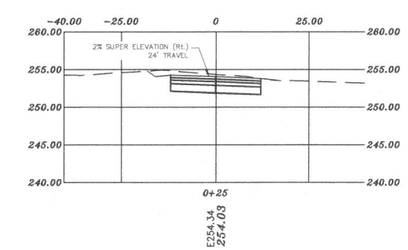


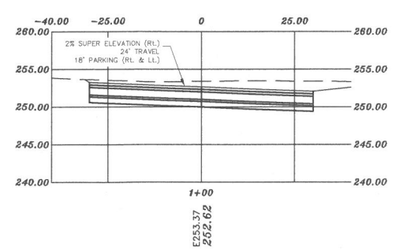












GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.
Vertical Scale: 1 In. = 10 Ft.

REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

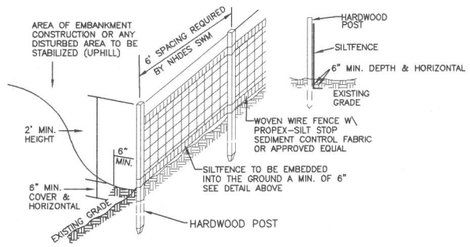
DRIVEWAY CROSS SECTIONS 0+00 – 1+66.75
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 – 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
LICENSED
PROFESSIONAL ENGINEER

E1



SILT FENCE CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8" THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 6' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF. SEE MAINTENANCE NOTE BELOW. REMOVAL OF SEDIMENT REQUIRED AT A DEPTH OF 6-INCHES.
4. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
5. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER.
6. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED.
7. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, SILT FENCE, PAGE 90.

SILT FENCE MAINTENANCE

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH SIX-INCHES IN DEPTH.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SILT FENCE DETAIL
NOT TO SCALE

E2

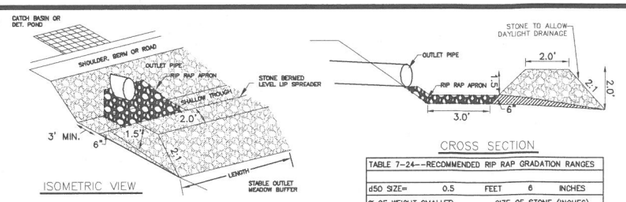
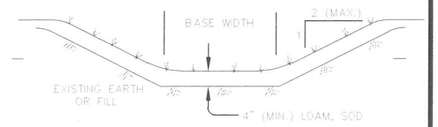


TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES			
d50 SIZE= 0.5 FEET 6 INCHES			
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM	TO	
100%	9	12	
85%	8	11	
50%	6	9	
15%	2	3	

1. CONSTRUCT THE LEVEL SPREADER LIP ON A 0% GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.
2. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT ON FILL.
3. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING EXCELSIOR ENFORCER MATTING BENEATH THE STONE. EACH STRIP SHALL OVERLAP BY AT LEAST SIX INCHES.
4. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT RE-CONCENTRATE IMMEDIATELY BELOW THE SPREADER.
5. MAINTENANCE: THE LEVEL SPREADER SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE IF THE LIP HAS BEEN DAMAGED AND THE DESIGN CONDITIONS HAVE NOT CHANGED. ANY DETRIMENTAL SEDIMENT ACCUMULATION SHOULD BE REMOVED. IF STONE REMOVAL HAS TAKEN PLACE ON THE LIP, THEN THE DAMAGE SHOULD BE REPAIRED.
6. REFERENCE IS MADE TO NHDES SWM VOL. 2, 4-6, STONE BERM LEVEL SPREADERS, PAGE 162

STONE BERM LEVEL SPREADER
NOT TO SCALE

E3



GRASS CONVEYANCE SWALE
NOT TO SCALE

INSPECT ANNUALLY FOR EROSION, SEDIMENT ACCUMULATIONS, VEGETATION LOSS, & INVASIVE SPECIES. REPAIR AS NECESSARY.

MOW GRASS ANNUALLY TO A DEPTH OF 4".

INSTALL STABILIZATION MATTING DURING CONSTRUCTION

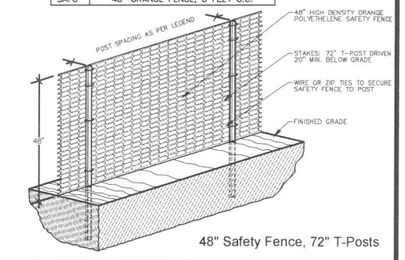
TO BE CONSTRUCTED IAW NH SWM #2 CHAPTER 4, #5 TREATMENT SWALES, PAGE 123.

E4

CONSTRUCTION SAFETY FENCE
NOT TO SCALE

LEGEND

SAF12	48" ORANGE FENCE, 12 FEET O.C.
SAF11	48" ORANGE FENCE, 11 FEET O.C..
SAF10	48" ORANGE FENCE, 10 FEET O.C.
SAF9	48" ORANGE FENCE, 9 FEET O.C.
SAF8	48" ORANGE FENCE, 8 FEET O.C..
SAF7	48" ORANGE FENCE, 7 FEET O.C.
SAF6	48" ORANGE FENCE, 6 FEET O.C.

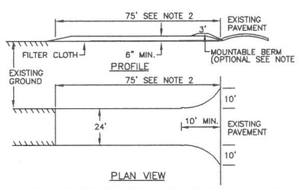


1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
5. THE FENCE MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

E5

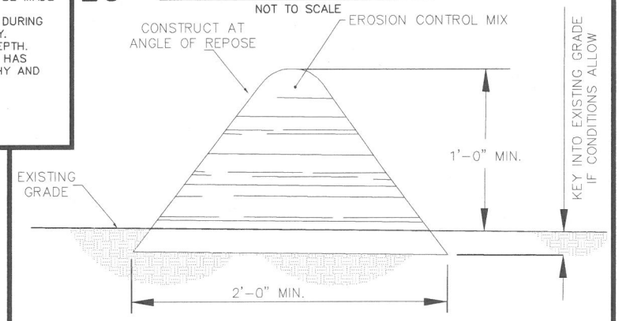
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
8. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CONSTRUCTION EXIT, PAGE 124.

E6

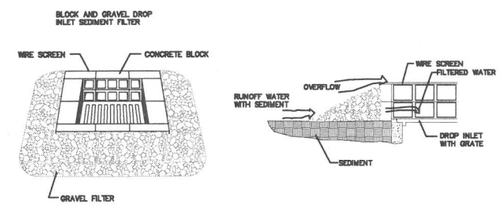
EROSION CONTROL MIX BERM
NOT TO SCALE



EROSION CONTROL MIX BERMS SHALL BE USED ONLY AS FOLLOWS:

1. BERMS SHALL BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY ABOVE THE BERM.
2. THE BERMS SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSLY AS POSSIBLE.
3. THE BERMS SHALL BE INSTALLED ON SLOPES LESS THAN 5%.
4. SUBJECT TO (E), BELOW, THE MIX SHALL HAVE AN ORGANIC PORTION BETWEEN 80 AND 100%, DRY WEIGHT BASIS, AND BE FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS.
5. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS ORGANIC MATERIAL.
6. THE MIX SHALL NOT CONTAIN SILTS, CLAY, OR FINE SANDS.
7. THE MIX SHALL HAVE A PARTICLE SIZE BY WEIGHT OF 70 TO 85% PASSING A 6-INCH SCREEN AND A MAXIMUM OF 85% PASSING THE 0.75-INCH SCREEN.
8. THE MIX PH SHALL BE BETWEEN 5.0 AND 8.0.
9. THE BERM SHALL BE AT LEAST 12 INCHES HIGH AND AT LEAST 2 FEET WIDE.
10. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, EROSION CONTROL MIX BERMS, PAGE 106.

E7



MAINTENANCE

ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURE OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

BLOCK & GRAVEL DROP INLET SEDIMENT FILTER
NOT TO SCALE

TO BE USED IN ALL AREAS WHERE THERE WILL BE NO TRAFFIC.

TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY STORM DRAIN INLET PROTECTION, PAGE 118.

E8

TEMPORARY EROSION CONTROL MEASURES

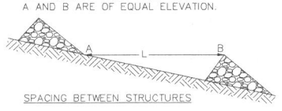
1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
3. ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. (SEE SEED SPECIFICATIONS THIS SHEET)
4. ALL DISTURBED AREAS WILL BE RESTABILIZED WITHIN 45 DAYS. AT ANY ONE TIME, NO MORE THAN 5 ACRES, (217,800 Sq. Ft.) WILL BE DISTURBED.
5. SILT FENCES AND PERIMETER BARRIERS SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY RAIN DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
6. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
7. PER THE EPA CGP REQUIREMENTS THERE WILL BE REPORTS OF THE EROSION CONTROL INSPECTIONS IAW SWPPP PREPARED BY BS&E. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.25" OR GREATER RAIN EVENT.
8. DITCHES, SWALES, AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
9. DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
10. ROADWAYS, PARKING AND CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINAL GRADE.
11. STABILIZATION MEANS:
    - 11.1. A MINIMUM OF 85% OF VEGETATIVE COVER HAS BEEN ESTABLISHED.
    - 11.2. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED, OR
    - 11.3. EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
12. THIS PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
13. THE NHDES STORMWATER MANUAL, IN THREE VOLUMES, DATED DECEMBER 2008, IS A PART OF THIS PLAN SET AND THE MORE RESTRICTIVE WILL GOVERN. (NH SWM)

EROSION & SEDIMENT CONTROL DETAILS
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

E9

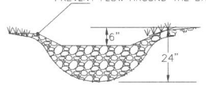
STONE CHECK DAM
NOT TO SCALE

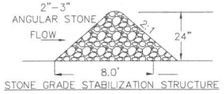
THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.



SPACING BETWEEN STRUCTURES

NOTE: KEY STONE INTO CHANNEL BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIUM OF 18" TO PREVENT FLOW AROUND THE DAM.

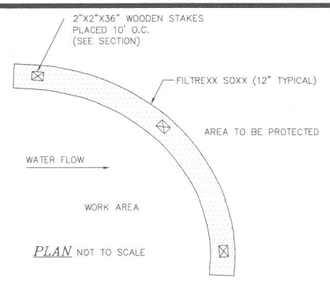




STONE GRADE STABILIZATION STRUCTURE

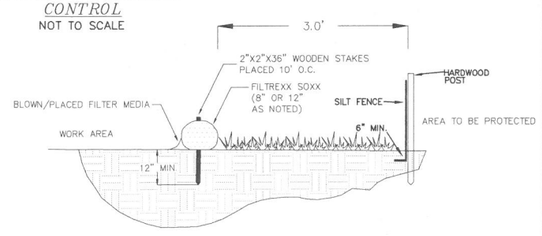
1.) CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH.
2.) THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE DAM SHOULD BE LESS THEN ONE ACRE.
3.) THE MAXIMUM HEIGHT OF THE DAM SHOULD BE TWO FEET.
4.) THE CENTER OF THE DAM SHOULD BE AT LEAST SIX INCHES LOWER THAN THE OUTER EDGES.
5.) THE MAXIMUM SPACING IS AS SHOWN ON THE PROJECT SITE PLANS.
6.) CHECK DAMS WILL NOT BE USED IN A FLOWING STREAM.
7.) TEMPORARY CHECK DAMS WILL BE REMOVED ONCE THE SWALE OR DITCH IS DETERMINED STABLE.
8.) TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CHECK DAMS, PAGE 114.

E10



PLAN NOT TO SCALE

FILTREXX SEDIMENT CONTROL
NOT TO SCALE



NOTES

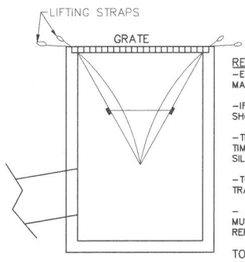
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIRMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
4. SILTSOXX MAY BE USED IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS.
5. SILTSOXX COMPOST/SOIL/ROCK/SEED FILL MATERIAL SHALL BE ADJUSTED AS NECESSARY TO MEET THE REQUIRMENTS OF THE SPECIFIC APPLICATION.
6. FILTREXX SOXX IS A REGISTERED TRADEMARK OF FILTREXXIN TERNATIONAL, LLC.
7. SILT FENCE IS NOT A SUBSTITUTION FOR SILT SOXX AND ANY EQUAL SUBSTITUTION TO BE APPROVED.
8. TO BE CONSTRUCTED IAW FILTREXX, SECTION 1:EROSION & SEDIMENT CONTROL (PAGE 323) - CONSTRUCTION ACTIVITIES, SWPPP CUT SHEET: FILTREXX SEDIMENT CONTROL

Filtrexx International, LLC
35481 Grafton Eastern Rd | Grafton, Oh 44044
440-926-2607 | fax: 440-926-4021
WWW.FILTREXX.COM
OR APPROVED EQUAL

NOTE: FOR AREAS REQUIRING DOUBLE PERIMETER CONTROL WITHIN 50' OF JURISDICTIONAL WETLANDS AND NOT FOR ALL SILT SOXX APPLICATIONS. THIS DUPLICATION MAY BE SPECIFIED AS 12" SILT SOXX OR ORANGE CONSTRUCTION FENCE AS NOTED.

SECTION NOT TO SCALE

E11



RECOMMENDED MAINTENANCE SCHEDULE

-EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT, AND MUST BE MAINTAINED.

-IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACK SHOULD BE INSPECTED EVERY 2-3 WEEKS.

-THE RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.

-TO BE USED IN ALL AREAS WHERE THERE WILL BE TRAFFIC.

- ARE SUBJECT TO DAMAGE BY SNOW PLOWS, AND MUST BE INSPECTED AFTER ANY SNOW EVENT AND REPLACED AS REQUIRED.

TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY STORM DRAIN INLET PROTECTION, PAGE 118.

SILTSACK DETAIL
NOT TO SCALE

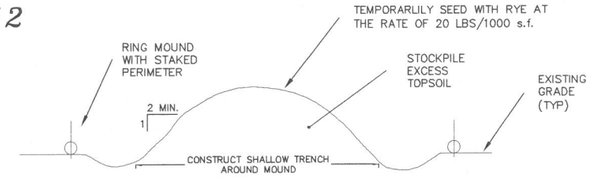
E-101

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS NOTED
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
LICENSED
PROFESSIONAL ENGINEER

E12



TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, SOIL STOCKPILE PRACTICES, PAGE 46.

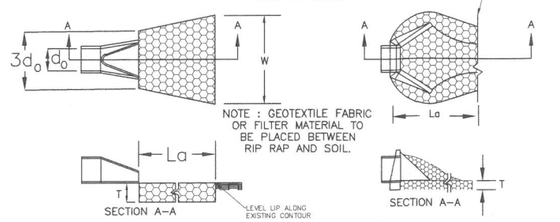
TOPSOIL STOCKPILE MOUND

NOT TO SCALE

E13

PIPE OUTLET PROTECTION

NOT TO SCALE



PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL

PIPE OUTLET TO WELL-DEFINED CHANNEL

PIPE OUTLET PROTECTION CONSTRUCTION SPECIFICATIONS

1. THE SUB GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS. SPECIFIED GRADATION.
2. THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO NHDOT SECTION 583.
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
5. TO BE CONSTRUCTED IAW NH SWM #2 4-6 CONVEYANCE PRACTICES, 6. OUTLET PROTECTION, PAGE 172.

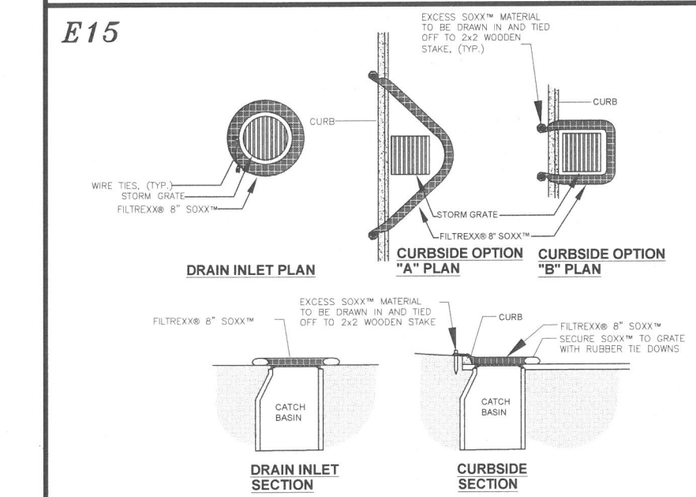
E14

TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES

d50 SIZE= 0.5 FEET 6 INCHES

% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM	TO
100%	9	12
85%	8	11
50%	6	9
15%	2	3

E15



NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTREXX INLET PROTECTION

NOT TO SCALE

E16

NOTE: THIS PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

NOTE: Temporary seed mix for stabilization of turf shall be winter rye or oats at a rate of 2.5 lbs. per 1000 s.f. and shall be placed prior to OCT. 15. If permanent seeding not yet complete.

SEEDING GUIDE

USE		SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A		FAIR	GOOD	GOOD	FAIR
	B		POOR	GOOD	FAIR	FAIR
	C		POOR	GOOD	EXCELLENT	GOOD
	D		FAIR	FAIR	GOOD	EXCELLENT
	E		FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	A		GOOD	GOOD	GOOD	FAIR
	C		GOOD	EXCELLENT	EXCELLENT	FAIR
	D		GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A		GOOD	GOOD	GOOD	FAIR
	B		GOOD	GOOD	FAIR	POOR
	C		GOOD	EXCELLENT	EXCELLENT	FAIR
	D		FAIR	GOOD	GOOD	EXCELLENT
PLAY AREAS AND athletic FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	F		FAIR	EXCELLENT	EXCELLENT	2/
	G		FAIR	EXCELLENT	EXCELLENT	2/

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-36.
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

RECOMMENDED *

SEEDING RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 Sq. Ft.
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
RED TOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREEPING RED FESCUE	10	0.25
CROWN VETCH	15	0.35
OR		
FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	24	0.55
CREEPING RED FESCUE	24	0.55
BIRDS FOOT TREFOIL	REMOVED 48	REMOVED 1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60

CONSERVATION MIX	POUNDS PER ACRE	POUNDS PER 1,000 S.F.
TALL FESCUE (35%)	15	0.35
CREEPING RED FESCUE (25%)	15	0.35
ANNUAL RYEGRASS (12%)	5	0.12
PERENNIAL RYEGRASS (10%)	5	0.12
KENTUCKY BLUEGRASS (10%)	15	0.35
WHITE CLOVER (3%)	7	0.16

SEEDING SPECIFICATIONS

1. GRADING AND SHAPING
   A. SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED.
   WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
2. SEEDBED PREPARATION
   A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
   B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEED BED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
3. ESTABLISHING A STAND
   A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING
   AND INCORPORATED INTO THE SOIL KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE,
   THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
   AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100LBS. PER 1,000 SQ.FT.
   NITROGEN(N), 50LBS. PER ACRE OR 1.1LBS. PER 1,000 SQ.FT.
   PHOSPHATE(P205), 100LBS. PER ACRE OR 2.2LBS. PER 1,000 SQ.FT.
   POTASH(K20), 100LBS. PER ACRE OR 2.2LBS. PER 1,000 SQ.FT.
   (NOTE: THIS IS THE EQUIVALENT OF 500LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000LBS. PER ACRE OF 5-10-10.)
   B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
   C. REFER TO TABLE(G-E1 THIS SHEET) FOR APPROPRIATE SEED MIXTURES AND TABLE(H-E1 THIS SHEET) FOR RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT TREFOIL, AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.
   D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
4. MULCH
   A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
   B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90LBS PER 1000 S.F.
5. MAINTENANCE TO ESTABLISH A STAND
   A. PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
   B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIAL STAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
   C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.
6. TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, PAGE 60.
7. SEE RAIN GARDEN AND INFILTRATION DETAIL SHEETS FOR SPECIFIC PLANTING INSTRUCTIONS AND SEEDING.

CONSTRUCTION SEQUENCE: E17

1.) CUT AND REMOVE TREES IN CONSTRUCTION AREA ONLY AS REQUIRED, RELOCATE ANY PROJECT T.B.M.

2.) CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS SPECIFIED. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL LAND DISTURBANCE AND MUST BE REVIEWED AND APPROVED BY THE COMMUNITY SERVICES DEPARTMENT.

3.) EROSION, SEDIMENT AND DETENTION CONTROL FACILITY SHALL BE INSTALLED & STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.TEMPORARY DIVERSIONS MAY BE REQUIRED. POST CONSTRUCTION STORM WATER MANAGEMENT PRACTICES MUST BE INITIATED AND STABILIZED EARLY IN THE PROCESS. RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMPs ARE STABILIZED.

4.) CLEAR, CUT AND DISPOSE OF DEBRIS IN APPROVED FACILITY

5.) CONSTRUCT TEMPORARY CULVERTS AS REQUIRED, OR DIRECTED

6.) CONSTRUCT ROADWAYS FOR ACCESS TO DESIRED CONSTRUCTION AREAS. ALL ROADS SHALL BE STABILIZED IMMEDIATELY. SEE BEST MANAGEMENT PRACTICES FOR BLASTING ON SHEET C-102.

7.) START BUILDING CONSTRUCTION.

8.) INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. INSTALL RAIN GARDENS. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.

9.) BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDED OR MULCHED AS REQUIRED, OR DIRECTED. NO AREA IS ALLOWED TO BE DISTURBED FOR A LENGTH OF TIME THAT EXCEEDS 45 DAYS BEFORE BEING STABILIZED. DAILY, OR AS REQUIRED. ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES. ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES. LIMIT THE LENGTH OF EXPOSURE OF UNSTABILIZED SOIL TO 45 DAYS OR LESS.

10.) CONSTRUCT TEMPORARY BERMS, DRAINS DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.

11.) INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. ALL SWPPP INSPECTIONS MUST BE CONDUCTED BY A QUALIFIED PROFESSIONAL SUCH AS A PROFESSIONAL ENGINEER (PE), A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION SEDIMENT AND STORM WATER INSPECTOR (CESSWI), OR A CERTIFIED PROFESSIONAL IN STORM WATER QUALITY (CPSWQ). INSPECTION REPORTS SHALL BE SUBMITTED TO THE COMMUNITY SERVICES DEPARTMENT. EROSION AND SEDITMENT CONTROL PRACTICES ARE TO BE INSPECTED WEEKLY AND AFTER 0.5" OF RAINFALL.

12.) COMPLETE PERMANENT SEEDING AND LANDSCAPING.

13.) REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE.

14.) SMOOTH AND REVEGETATE ALL DISTURBED AREAS.

15.) FINISH PAVING ALL ROADWAYS.

16.) LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

E18 *DEFINITION OF STABLE:*

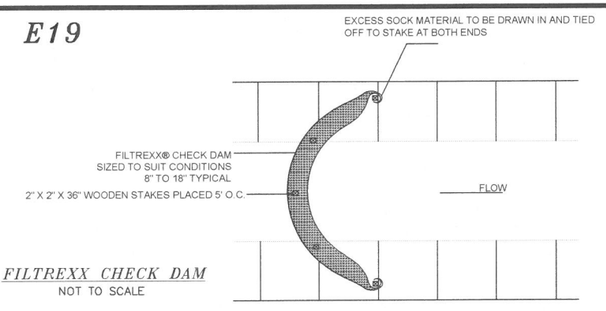
PER ENV-WQ 1500 ALTERATION OF TERRAIN

1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
2. A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED..
3. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED.
4. OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ADDITION STABILIZATION NOTES:

5. HAY MULCH OR OTHER APPROVED METHODS SHALL BE USED TO CONTROL EROSION OF NEWLY GRADED AREAS. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS AFTER THEIR CONSTRUCTION.
6. DISTURBED SOIL AREAS SHALL BE EITHER TEMPORARILY OR PERMANENTLY STABILIZED. IN AREAS WHERE FINAL GRADING HAS NOT OCCURRED, TEMPORARY STABILIZATION MEASURES SHOULD BE IN PLACE WITHIN SEVEN (7) CALENDAR DAYS FOR EXPOSED SOIL AREAS THAT ARE WITHIN ONE HUNDRED (100) FEET OF A SURFACE WATER BODY OR A WETLAND AND NO MORE THAN 14 CALENDAR DAYS FOR ALL OTHER AREAS. PERMANENT STABILIZATION SHOULD BE IN PLACE WITHIN THREE (3) CALENDAR DAYS FOLLOWING COMPLETION OF FINAL GRADING OF EXPOSED SOIL AREAS.

E19

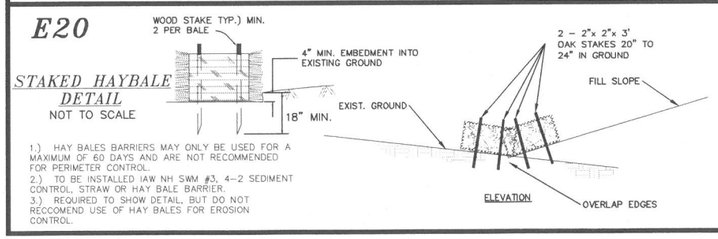


FILTREXX CHECK DAM

NOT TO SCALE

NOTES.
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. CHECK DAM SHOULD BE USED IN AREAS THAT DRAIN 1 ACRE OR LESS.
3. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
4. CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
5. CONTRACTOR IS REQUIRED TO BE A FILTREXX CERTIFIED™ INSTALLER.

E20

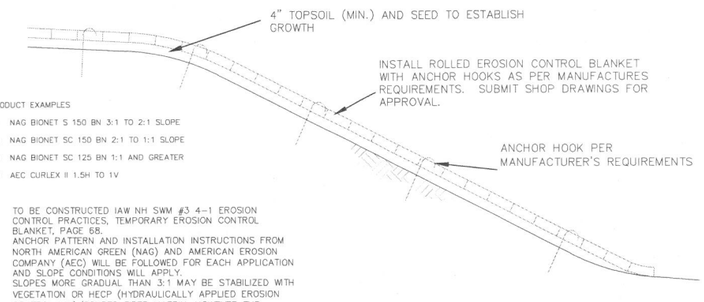


STAKED HAYBALE DETAIL

NOT TO SCALE

1.) HAY BALES BARRIERS MAY ONLY BE USED FOR A MAXIMUM OF 60 DAYS AND ARE NOT RECOMMENDED FOR PERIMETER CONTROL.
2.) TO BE INSTALLED IAW NH SWM #3, 4-2 SEDIMENT CONTROL, STRAW OR HAY BALE BARRIER.
3.) REQUIRED TO SHOW DETAIL, BUT DO NOT RECOMEND USE OF HAY BALES FOR EROSION CONTROL.

E21



PRODUCT EXAMPLES

1.) NAG BIONET S 150 BN 3:1 TO 2:1 SLOPE
2.) NAG BIONET SC 150 BN 2:1 TO 1:1 SLOPE
3.) NAG BIONET SC 125 BN 1:1 AND GREATER
4.) AEC CURLEX II 1.5H TO 1V

1. TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, TEMPORARY EROSION CONTROL BLANKET, PAGE 68.
2. ANCHOR PATTERN AND INSTALLATION INSTRUCTIONS FROM NORTH AMERICAN GREEN (NAG) AND AMERICAN EROSION COMPANY (AEC) WILL BE FOLLOWED FOR EACH APPLICATION AND SLOPE CONDITIONS WILL APPLY.
3. SLOPES MORE GRADUAL THAN 3:1 MAY BE STABILIZED WITH VEGETATION OR HECP (HYDRAULICALLY APPLIED EROSION CONTROL MIX)/BONDED FIBER MATRIX. HOWEVER THE ENGINEER RESERVES THE RIGHT TO REQUEST INCREASED RECB TO BE INSTALLED ON ANY SLOPE.

ROLLED EROSION CONTROL BLANKET (RECB) SLOPE STABILIZATION DETAIL

NOT TO SCALE

E22

WINTER STABILIZATION NOTES

1. ALL DISTURBED AREAS THAT DO NOT HAVE AT LEAST 85% VEGETATIVE COVERAGE PRIOR TO OCTOBER 15TH SHALL BE STABILIZED BY APPLYING MULCH AT A RATE OF 3-4 TONS PER ACRE. ALL SIDE SLOPES, STEEPER THAN 4:1, THAT ARE NOT DIRECTED TO SWALES OR DETENTION BASINS, SHALL BE LINED WITH BIODEGRADABLE/PHOTODEGRADABLE "JUTE MATTING" (EXCELSIOR'S CURLEX II OR EQUAL). ALL OTHER SLOPES SHALL BE MULCHED AND TACKED AT A RATE OF 3-4 TONS PER ACRE. THE APPLICATION OF MULCH AND/OR JUTE MATTING SHALL NOT OCCUR OVER EXISTING SNOW COVER. IF THE SITE IS ACTIVE AFTER OCTOBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE REMOVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.

2. ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH TEMPORARY JUTE MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MONTHS. IF THE SWALES ARE TO BE MATTED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY GRADED AND SHAPED.

3. PRIOR TO OCT. 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN GRAVEL APPLICATION. IF THESE AREAS' ELEVATIONS ARE PROPOSED TO REMAIN BELOW THE PROPOSED SUBGRADE ELEVATION, THE SUBGRADE MATERIAL SHALL BE ROUGHLY CROWNED AND A 3" LAYER OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED. THIS WILL ALLOW THE SUBGRADE TO SHED RUNOFF AND WILL REDUCE ROADWAY EROSION. THIS CRUSHED GRAVEL DOES NOT HAVE TO CONFORM TO NH DOT 304.3, BUT SHALL HAVE BETWEEN 15-25% PASSING THE #200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER OCTOBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.

4. AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE GROWING SEASON, NO ADDITIONAL LOAM SHALL BE SPREAD ON SIDE SLOPES AND SWALES. THE STOCKPILES THAT WILL BE LEFT UNDISTURBED UNTIL SPRING SHALL BE SEEDED BY THIS DATE. AFTER OCTOBER 15TH, ANY NEW OR DISTURBED PILES SHALL BE MULCHED AT A RATE OF 3-4 TONS PER ACRE. ALL STOCKPILES THAT WILL REMAIN THROUGHOUT THE WINTER SHALL BE SURROUNDED WITH SILT FENCING.

E-102

REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

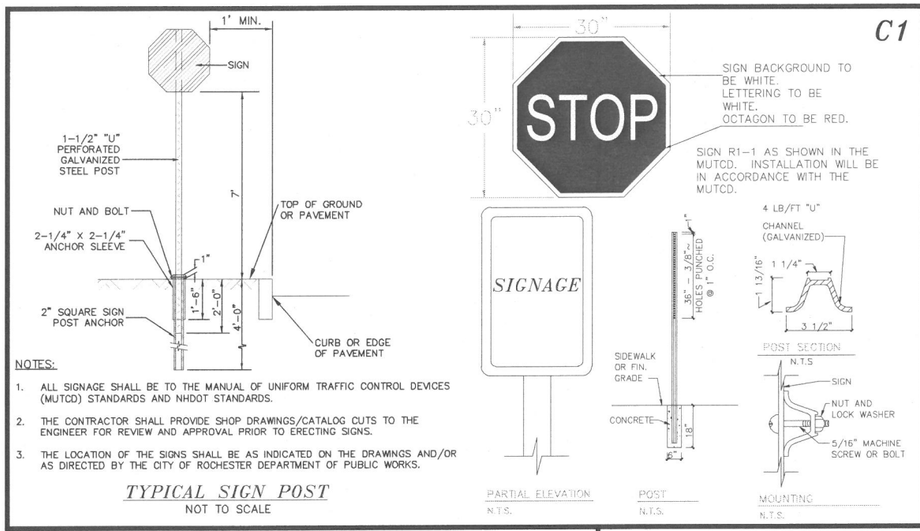
EROSION & SEDIMENT CONTROL DETAILS
FOR STRAFFORD COUNTY
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS NOTED
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE KENNETH A. BERRY LICENSED PROFESSIONAL ENGINEER

C1

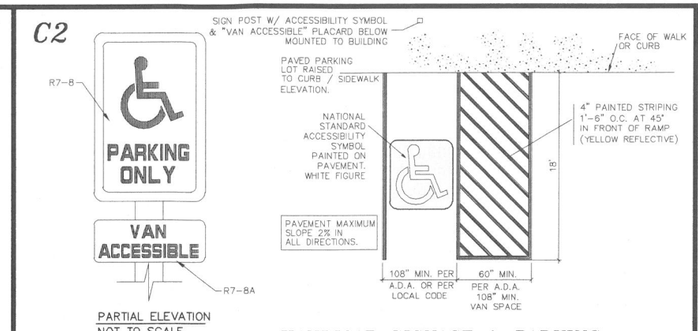


NOTES:

1. ALL SIGNAGE SHALL BE TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND NHDOT STANDARDS.
2. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS/CATALOG CUTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ERECTING SIGNS.
3. THE LOCATION OF THE SIGNS SHALL BE AS INDICATED ON THE DRAWINGS AND/OR AS DIRECTED BY THE CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS.

TYPICAL SIGN POST
NOT TO SCALE

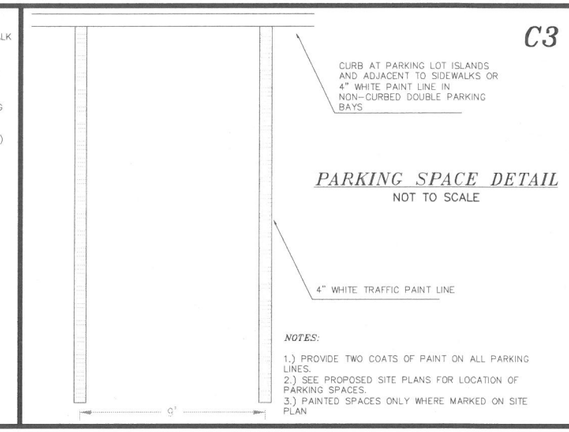
C2



PARTIAL ELEVATION
NOT TO SCALE

HANDICAP SIGNAGE & PARKING
NOT TO SCALE

C3

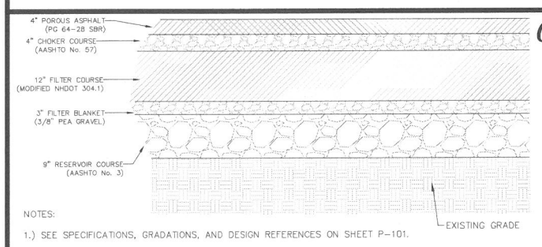


PARKING SPACE DETAIL
NOT TO SCALE

NOTES:

1.) PROVIDE TWO COATS OF PAINT ON ALL PARKING LINES.
2.) SEE PROPOSED SITE PLANS FOR LOCATION OF PARKING SPACES.
3.) PAINTED SPACES ONLY WHERE MARKED ON SITE PLAN

C4a

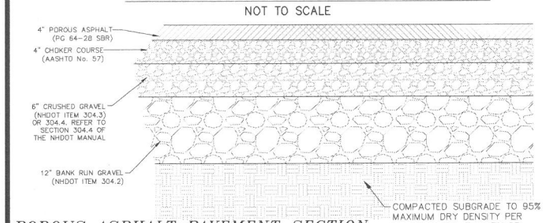


NOTES:

1.) SEE SPECIFICATIONS, GRADATIONS, AND DESIGN REFERENCES ON SHEET P-101.

POROUS ASPHALT PAVEMENT SECTION
NOT TO SCALE

C4b



POROUS ASPHALT PAVEMENT SECTION
NOT TO SCALE (WITHIN NHDOT ROW)

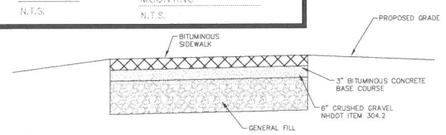
NOTES:

1.) BITUMINOUS MATERIALS SHALL CONFORM TO NHDOT SPECIFICATION SUBSECTION 401.3.6.

2.) PAVEMENT BASE COURSE AGGEGATE SHALL CONFORM TO NHDOT SPECIFICATION SECTION 304, ITEM 304.3 AND COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.

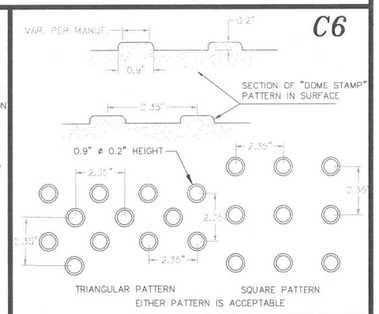
3.) PAVEMENT SUBBASE COURSE AGGREGATE AND AGGREGATE FOR SUBGRADE REPAIR AREAS SHALL BE SUITABLE FOR USE AS STRUCTURAL FILL AND BE PROOFROLLED AND COMPABED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY. FOR NEW CONSTRUCTION AREAS ONLY. IN EXISTING PAVEMENT AREAS THE CONTRACTOR IS TO ENSURE THE BASE MATERIAL IS SUITABLE TO THE OWNER FOR RE-PAVING

C5



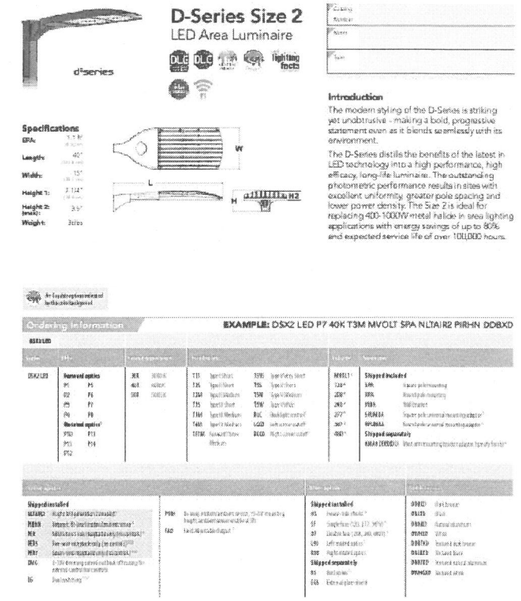
BITUMINOUS SIDEWALK AT GRADE
NOT TO SCALE

C6



DETECTABLE WARNING SURFACE
NOT TO SCALE

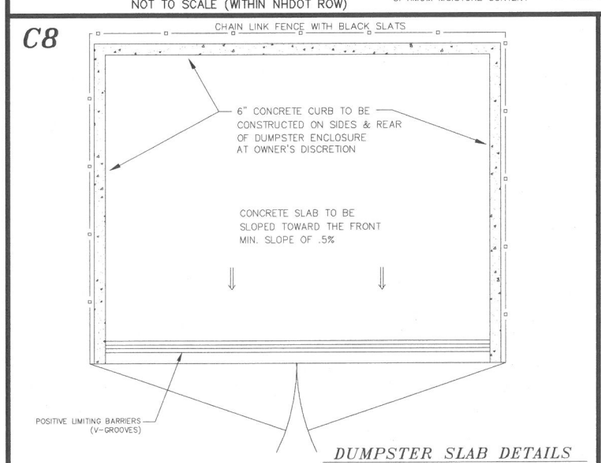
C7



LAMP "A" MOUNTED 8' ON BUILDING

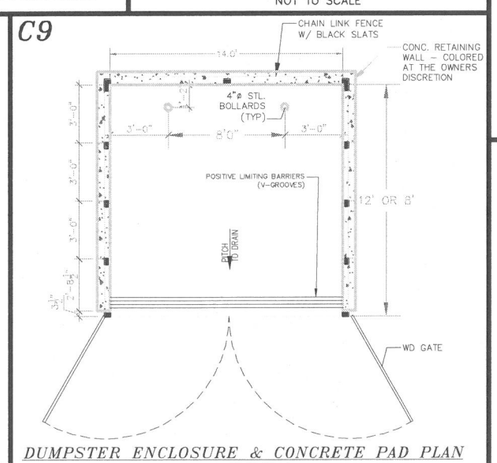
LAMP "B" MOUNTED 18' ABOVE GRADE

C8



DUMPSTER SLAB DETAILS
NOT TO SCALE

C9

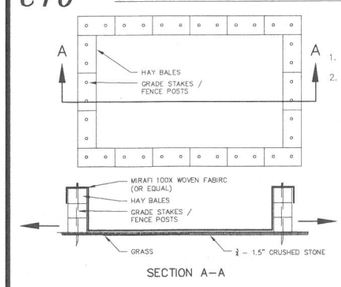


DUMPSTER ENCLOSURE & CONCRETE PAD PLAN
NOT TO SCALE

C10

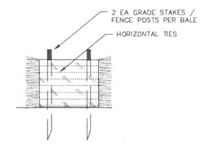
TEMPORARY SEDIMENT BASIN (DEWATERING)

NOT TO SCALE



SECTION A-A

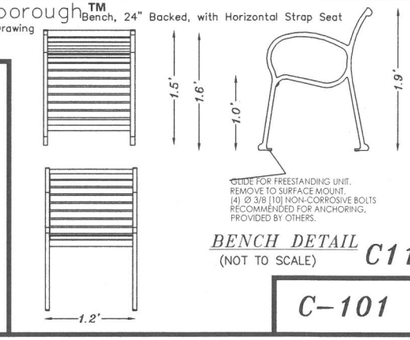
1. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, CONSTRUCTION DEWATERING, PAGE 144.
2. STRUCTURE MAY BE MADE WITH LAYERS OF FILTREXX SILT SOXX, OR EQUAL, IN A PYRAMID FORMATION.



1. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, CONSTRUCTION DEWATERING, PAGE 144.
2. STRUCTURE MAY BE MADE WITH LAYERS OF FILTREXX SILT SOXX, OR EQUAL, IN A PYRAMID FORMATION.
3. TO BE INSTALLED UPSLOPE OF BUFFER OR STABILIZED AREA.

C11

Scarborough™ Bench, 24" Backed, with Horizontal Strap Seat
Product Drawing



BENCH DETAIL
(NOT TO SCALE)

C-101

REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

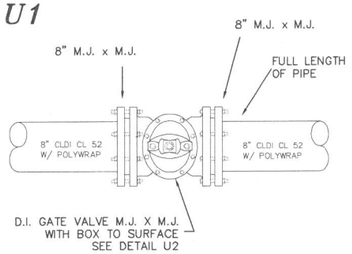
CONSTRUCTION DETAILS
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS NOTED
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE — KENNETH A. BERRY — No. 3470 — LICENSED PROFESSIONAL ENGINEER

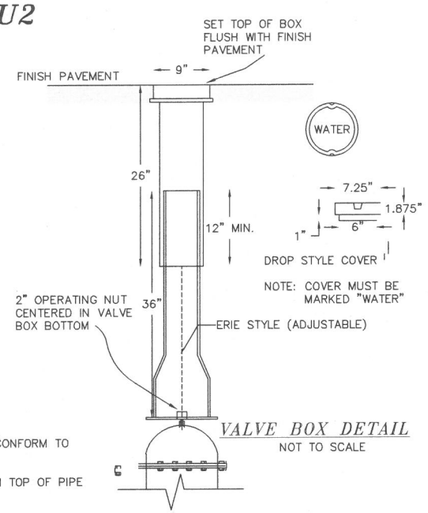
U1



SHUTOFF VALVE DETAIL
NOT TO SCALE

1.) ALL VALVES ARE TO OPEN RIGHT
2.) SEE CITY OF ROCHESTER STANDARDS OF INFRASTRUCTURE DESIGN FOR POTABLE WATER DETAILS

U2



VALVE BOX DETAIL
NOT TO SCALE

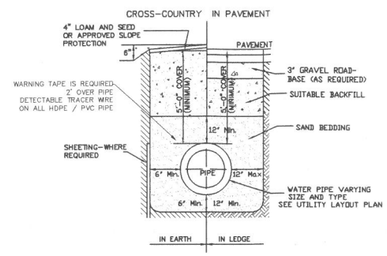
NOTES:

1.) ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO LOCAL WATER WORKS TECHNICAL SPECIFICATIONS.

2.) ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.

3.) ALL VALVES ARE TO OPEN RIGHT
4.) SEE CITY OF ROCHESTER STANDARDS OF INFRASTRUCTURE DESIGN FOR POTABLE WATER DETAILS

U3

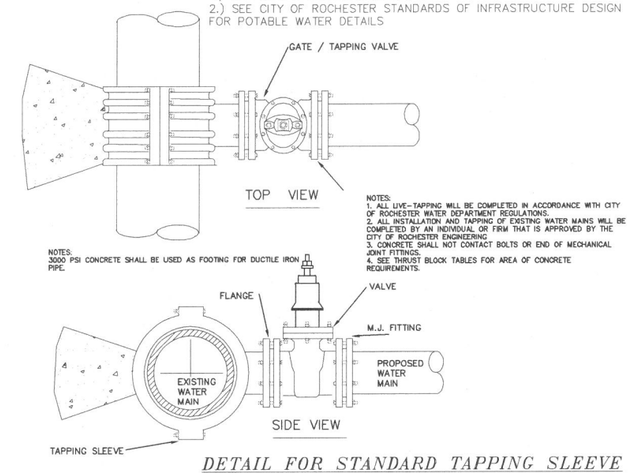


1.) PER THE CITY OF ROCHESTER STANDARDS OF INFRASTRUCTURE DESIGN I-5 ALL UTILITIES WITHIN THE PROPOSED MUNICIPAL RIGHT OF WAY WILL BE INSPECTED BY THE CITY OF ROCHESTER ENGINEERING DEPARTMENT.

TYPICAL TRENCH DETAIL FOR WATER SYSTEM
NOT TO SCALE

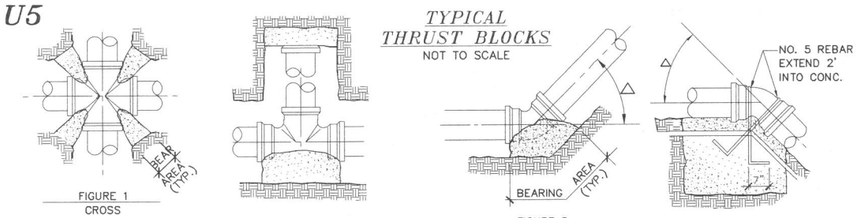
U4

1.) ALL VALVES ARE TO OPEN RIGHT
2.) SEE CITY OF ROCHESTER STANDARDS OF INFRASTRUCTURE DESIGN FOR POTABLE WATER DETAILS



DETAIL FOR STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY
NOT TO SCALE

U5



TYPICAL THRUST BLOCKS
NOT TO SCALE

FIGURE 1
CROSS
(ONLY REQ'D IF ANY LEG IS LESS THAN 60 FT. LONG)

FIGURE 2
TEE, PLUG OR CAP

FIGURE 3
HORIZONTAL OR UPWARD VERTICAL BEND

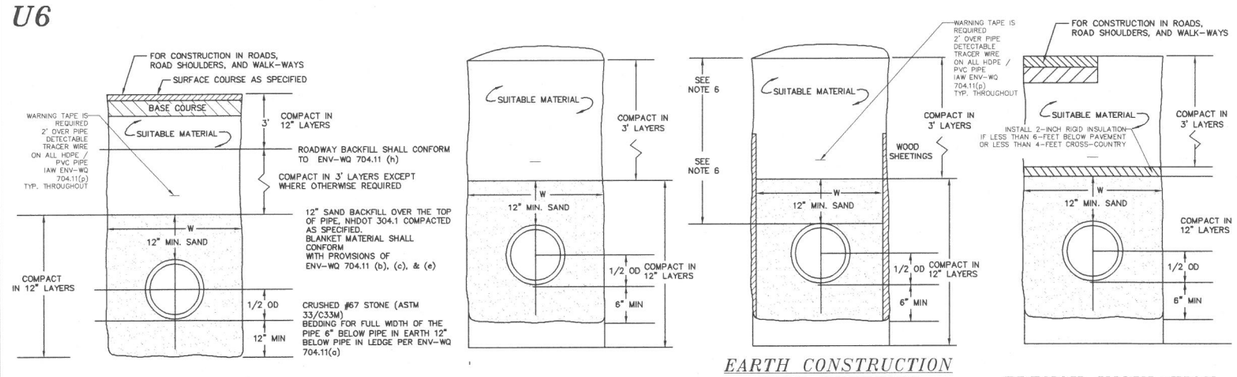
FIGURE 4
DOWNWARD VERTICAL BEND

PIPE I.D.	BEARING AREA, SQUARE FEET						VOLUME OF CONC. CU.YD.		
	FIGURE 1	FIGURE 2	FIGURE 3, △				FIGURE 4, △		
			90°	45°	22-1/2°	11-1/4°	45°	22-1/2°	11-1/4°
4"	2	2	2	1	1	1	1.0	.5	.5
6"	2	3	3	2	1	1	1.5	1.0	.5
8"	2	5	6	3	2	1	2.0	1.0	.5
10"	3	7	10	5	3	1	4.0	2.0	1.0
12"	3	10	14	8	4	2			
14"	4	14	20	10	5	3			
16"	4	20	24	12	7	4			
18"	5	24	30	16	10	5			
20"	5	28	40	20	12	6			

GENERAL NOTES:

1. ALL FITTINGS & EXPOSED REBAR TO BE RAPPED W/ TWO LAYERS OF 6 MIL. POLYETHYLENE WHERE COVERED WITH CONCRETE.
2. ALL CONCRETE SHALL BE CLASS C 3000 P.S.I. MINIMUM 28 DAYS COMPRESSIVE STRENGTH.
3. PLACE CONCRETE AGAINST UNDISTURBED EARTH.
4. TABLE DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN FOR EACH INSTALLATION IS REQUIRED IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 P.S.F.
5. VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.
6. KEEP CONCRETE AWAY FROM FLANGE BOLTS AND FITTINGS.
7. MECHANICAL JOINTS AT ALL FITTINGS IE: BENDS,
8. TEES, CROSSES, AND VALVES SHALL BE THRUST RESTRAINT. (MEGA-LUG OR APPROVED EQUAL.
9. SEE CITY OF ROCHESTER CHAPTER I-17

U6



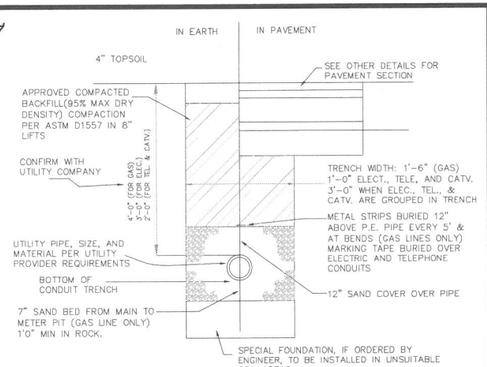
LEDGE CONSTRUCTION
NOT TO SCALE

EARTH CONSTRUCTION
NOT TO SCALE

EARTH CONSTRUCTION WITH SHEETING
NOT TO SCALE

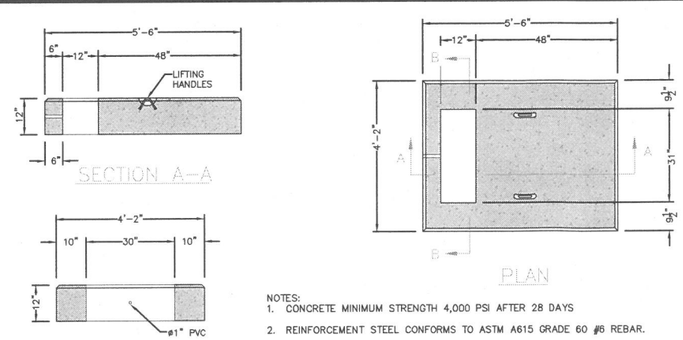
TRENCH INSULATION
NOT TO SCALE

U7



ELECTRICAL, TELEPHONE, AND GAS TRENCH
NOT TO SCALE

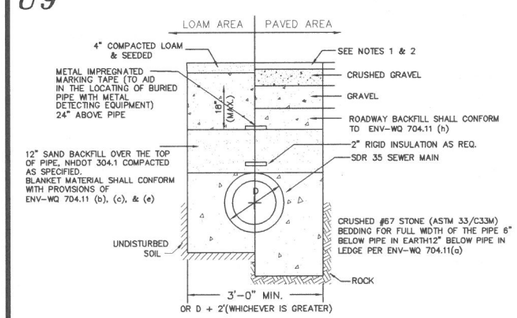
U8



NOTES:
1. CONCRETE MINIMUM STRENGTH 4,000 PSI AFTER 28 DAYS
2. REINFORCEMENT STEEL CONFORMS TO ASTM A615 GRADE 60 #6 REBAR.
3. MEETS OR EXCEEDS EVERSOURCE SPECIFICATIONS.
4. MUST BE A SHEA CONCRETE PRODUCT OR EQUAL.

TRANSFORMER AND PAD DETAIL
NOT TO SCALE

U9



NOTE:
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPEC'S.
3. ANTI-SEEP COLLARS OR CLAY CHECK DAMS ON STEEP RUNS IN WET CONDITIONS.
4. ALL SEWER INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF NHDES & MUNICIPAL DPW SEWER DIVISION STANDARDS. ALL PVC SEWER PIPE IS TO CONFORM WITH ENV-WQ 704.05 (c)-(e) AND CONFORM WITH ASTM D3034. PVC JOINT SEALS SHALL CONFORM WITH ASTM D3121. SDR-21 PVC FORCE MAIN PIPE MATERIAL IS REQUIRED IN LOCATIONS AS SHOWN. SDR-21 PVC FORCEMAIN PIPE WILL CONFORM TO ENV-WQ 704.08.
5. SEE DETAIL U11 BELOW FOR INSULATION DETAILS.
6. SEE CITY OF ROCHESTER STANDARDS OF INFRASTRUCTURE DESIGN CHAPTER II-8

TYPICAL SEWER PIPE TRENCH
NOT TO SCALE

U-101

REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

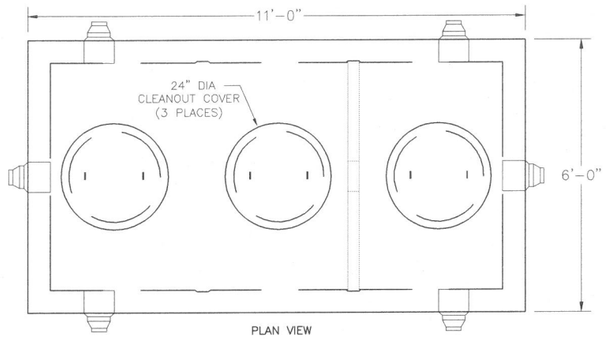
UTILITY CONSTRUCTION DETAILS
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

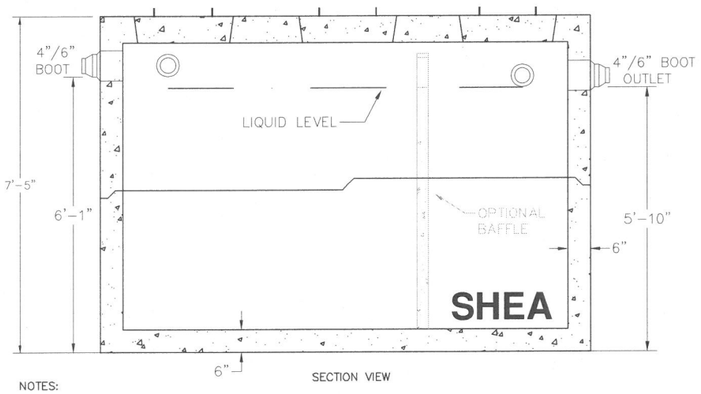
SCALE : AS NOTED
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE KENNETH A. BERRY No. 7047 LICENSED PROFESSIONAL ENGINEER

U10



PLAN VIEW



SECTION VIEW

NOTES:

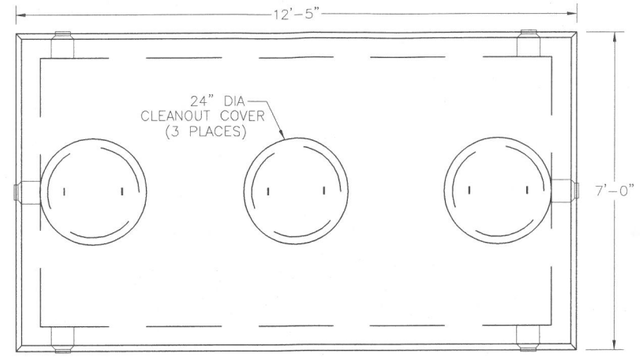
1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 REGS, FOR SEPTIC TANKS.
3. ALL REINFORCEMENT PER ASTM C1227
4. DESIGNED FOR AASHTO HS-20 LOADING, COVER 1-5 FT
5. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.
6. TEES AND BAFFLES SOLD SEPARATELY.

	WEIGHT	TOP	BOT
ITEM NO. TK-2000C	25,600#	13,655#	11,945#
TK-2310C2X	27,340#	14,515#	12,825#

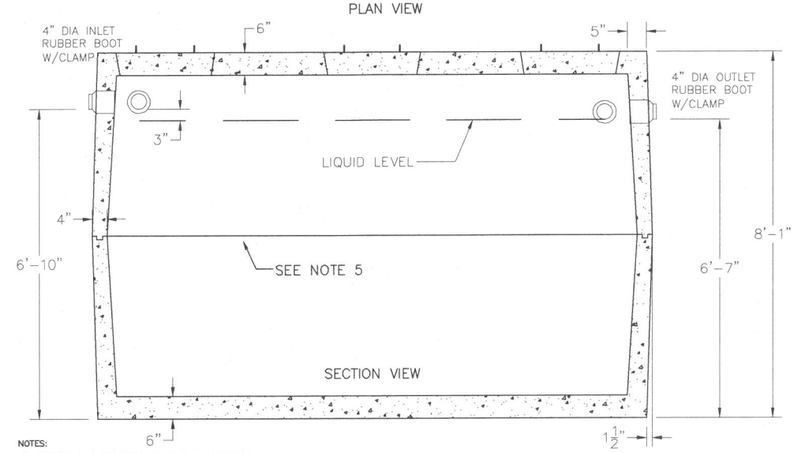
2,000 GALLON SEPTIC TANK

NOT TO SCALE

U11



PLAN VIEW



SECTION VIEW

NOTES:

1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGN CONFORMS WITH 310 CMR, SECTION 15.00 DEP TITLE 5 REGS FOR SEPTIC TANKS
4. ALL REINFORCEMENT PER ASTM C1227.TEES AND GAS BAFFLE SOLD SEPARATELY.
5. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.
6. DESIGNED FOR 1 TO 5 FEET COVER. ALSO AVAILABLE IN AASHTO HS-20 LOADING.

3,000 GALLON SEPTIC TANK

NOT TO SCALE

REVISION	DATE	DESCRIPTION
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UTILITY CONSTRUCTION DETAILS
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

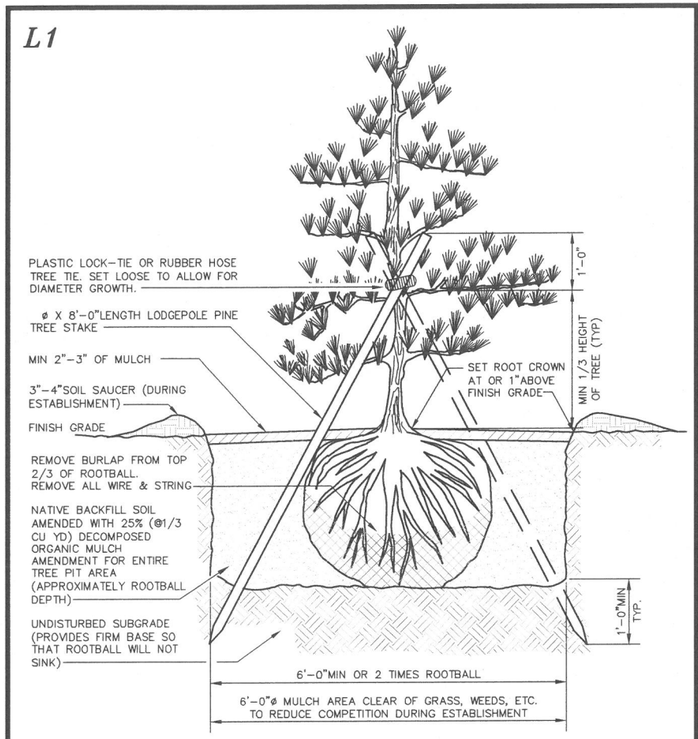
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS NOTED
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 7047
LICENSED
PROFESSIONAL ENGINEER

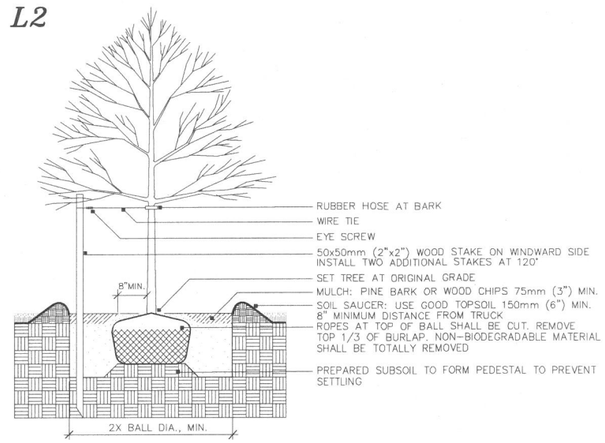
U-102

L1



CONIFEROUS TREE PLANTING

L2



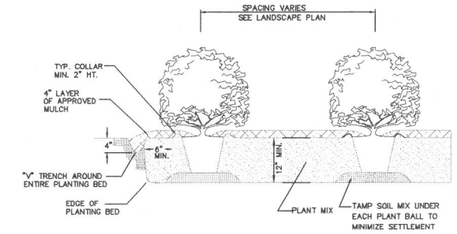
DECIDUOUS TREE PLANTING

NOTE: STAKING TO BE USED IN PARKING ISLANDS AND OTHER CONFINED AREAS AS NECESSARY TO AVOID CONFLICTS WITH PEDESTRIANS

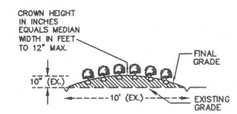
L3

NOTES:

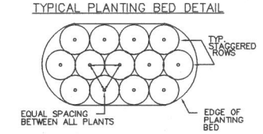
1. SCARIFY ROOT MASS OF CONTAINERIZED PLANT MATERIAL.
2. INSTALL CONTAINERIZED PLANTS AT FINSHED GRADE
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
5. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.



TYPICAL PLANTING BED DETAIL



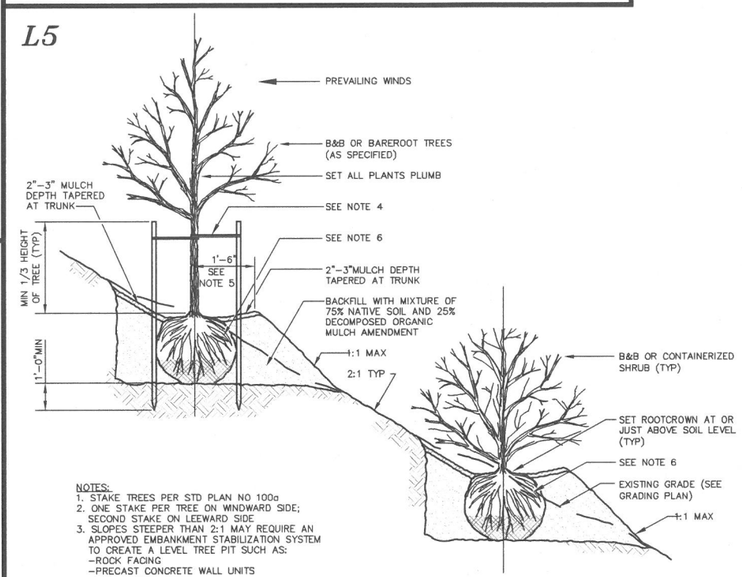
TYPICAL BED CROWNING



TYPICAL PLANTING BED PLAN

SHRUB & HEDGE PLANTING

L5



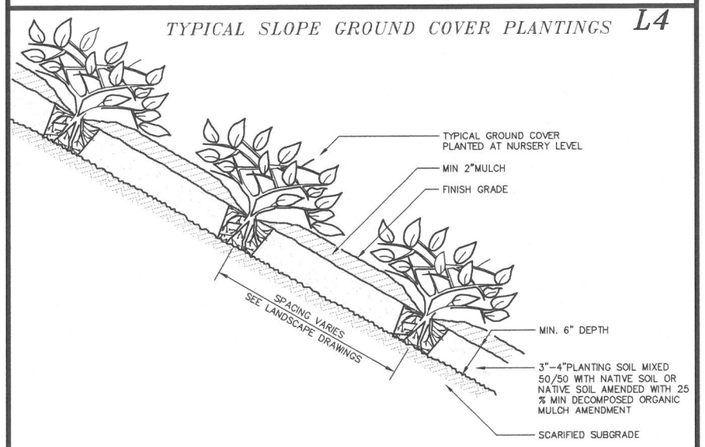
NOTES:

1. STAKE TREES PER STD PLAN NO 100a
2. ONE STAKE PER TREE ON WINDWARD SIDE; SECOND STAKE ON LEEWARD SIDE
3. SLOPES STEEPER THAN 2:1 MAY REQUIRE AN APPROVED EMBANKMENT STABILIZATION SYSTEM TO CREATE A LEVEL TREE PIT SUCH AS:
   - ROCK FACING
   - PRECAST CONCRETE WALL UNITS
   - TIMBER WALL
   - MANUFACTURED SLOPE RETENTION UNITS
4. CHAINLOCK TREE TIE. LOOP EACH TIE AROUND TREE LOOSELY TO PROVIDE 1" SLACK FOR DIAMETER GROWTH.
5. SHAPE SOIL TO PROVIDE 3' DIAMETER OR ROOTBALL DIAMETER, WHICHEVER IS GREATER, WATERING RING.
6. REMOVE ALL WIRE AND STRING. REMOVE TOP 2/3 OF BURLAP.

TREE PLANTING ON SLOPES

L4

TYPICAL SLOPE GROUND COVER PLANTINGS



L6

NOTES:

1.) CALL DIG SAFE PRIOR TO BEGINNING WORK. (1-888-344-7233). THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF THE SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.

2.) CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS PRIOR TO CONSTRUCTION BIDDING.

3.) PROVIDED SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING CONDITIONS.

4.) ALL PLANT MATERIAL INSTALLED SHALL MEET THE SPECIFICATIONS OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

5.) ALL PLANT MATERIALS SHALL BE FREE FROM INSECTS AND DISEASE.

6.) ALL PLANTINGS SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE FROM OWNER.

7.) ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.

8.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING AND NEWLY PLANTED TREES AND SHRUBS DURING THE CONSTRUCTION PROCESS. WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING (SNOW OR EQUAL) AROUND EXISTING TREES AND SHRUBS THAT COULD BE IMPACTED BY THE CONSTRUCTION PROCESS. STORAGE OF CONSTRUCTION EQUIPMENT, CONSTRUCTION MATERIALS, SNOW STORAGE AND OR VEHICLE PARKING SHALL NOT BE PERMITTED WITHIN THE DRIP LINE OF TREES OR TWENTY FEET WHICH EVER IS GREATER.

9.) NEW PLANTINGS SHALL BE INSTALLED PER PROJECT DRAWINGS AND SPECIFICATION THAT INCLUDE FERTILIZATION AND MULCHING AS REQUIRED.

10.) ALL SHRUB BEDS AND TREE PITS SHALL BE MULCHED WITH 3" CLEAN SHREDDED BLACK MULCH.

11.) WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR GROUND COVER AND PERENNIAL BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPHAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.

12.) MAINTENANCE OF NEW PLANTINGS AND LAWNS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND OR LANDSCAPE SUBCONTRACTOR UNTIL ACCEPTANCE BY THE OWNER. RESPONSIBILITIES SHALL INCLUDE WATERING WEEDING AND MOWING AS NECESSARY. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, REPLACEMENT MATERIAL SHALL BE GUARANTEED FOR AND ADDITIONAL YEAR FROM TIME OF INSTALLATION.

13.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EROSION CONTROL MEASURES DURING THE CONSTRUCTION PHASE AND UNTIL ALL AREAS HAVE BEEN STABILIZED AND ACCEPTED BY THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE WEEKLY INSPECTIONS OF EROSION MEASURE AND IMMEDIATELY AFTER STORM EVENTS AND REPAIR AS NECESSARY.

14.) THE GENERAL CONTRACTOR AND OR THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL THREE GUYING MATERIAL ONCE PLANT MATERIAL HAS BEEN ESTABLISHED. (MINIMUM OF ONE GROWING SEASON). ALL TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVED ONCE STABILIZATION OF DISTURBANCE HAS BEEN ACCEPTED BY OWNER.

15.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR A MINIMUM OF TWO MOWINGS FOR ALL TURF AREAS OR UNTIL ACCEPTANCE BY THE OWNER. A MINIMUM UNIFORM 75% CATCH OF TURF IS REQUIRED FOR ACCEPTANCE.

16.) ALL PLANTINGS SHALL BE WATERED REGULARLY DURING THEIR FIRST YEAR AND MAINTAINED PERMANENTLY IN GOOD GROWING CONDITION AS AN EFFECTIVE VISUAL SCREEN.

17.) SHRUBS OR TREES WHICH DIE SHALL BE REPLACED WITHIN ONE GROWING SEASON WITH NEW SHRUBS OR TREES TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE LANDSCAPING REQUIREMENTS.

18.) ALL REQUIRED LANDSCAPING SHALL BE INSTALLED BEFORE OCCUPANCY, OR WITHIN SIX MONTHS IF OCCUPANCY OCCURS DURING WINTER CONDITIONS.

19.) TREES ARE TO BE 3" CALIPER 6" OFF THE ROOT BALL.

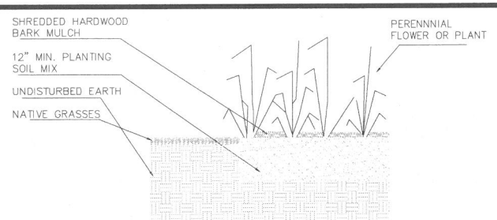
20.) ALL PLANT STOCK SHALL CONFORM TO ANSI Z260.1 – NURSERY STOCK, LATEST EDITIONS (AMERICAN ASSOCIATION OF NURSERYMEN, INC.)

21.) 4" AGED PINEBARK MULCH AND A WEED BARRIER (TY-PAR FABRIC OR APPROVED EQUAL) SHALL BE APPLIED TO ALL SHRUB AND GROUND COVER BEDS. INSTALL WEED BARRIER AS PER MANUFACTURERS RECOMMENDATIONS.

22.) PLANT-PIT BACK-FILL SHALL BE MIXED AT A RATE OF 7 PARTS OF TOPSOIL TO 2 PARTS OF DEHYDRATED COW MANURE. SLOW RELEASE FERTILIZER SHALL BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS. USE EXISTING ON-SITE TOPSOIL AS PART OF BACK FILL WHEN AVAILABLE.

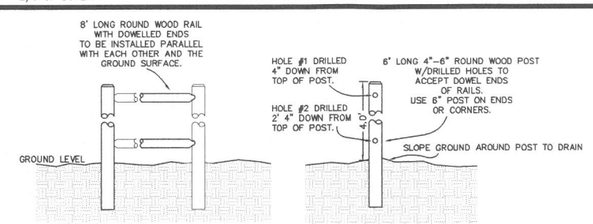
23.) ALL LANDSCAPED AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUNDCOVER SHALL BE RESTORED WITH SEED OR SOD AS INDICATED ON PLANS.

L8



PERENNIAL PLANTING DETAIL

L7



TYPICAL POST & RAIL FENCE DETAIL

N.T.S.

REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

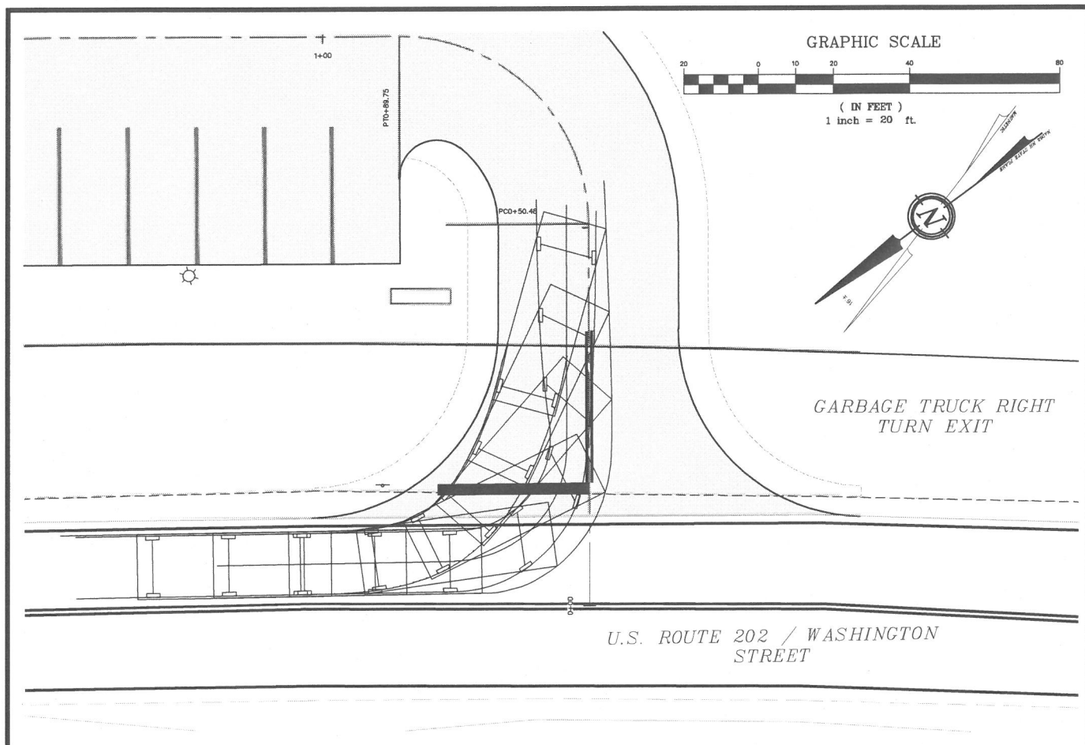
LANDSCAPING CONSTRUCTION DETAILS
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

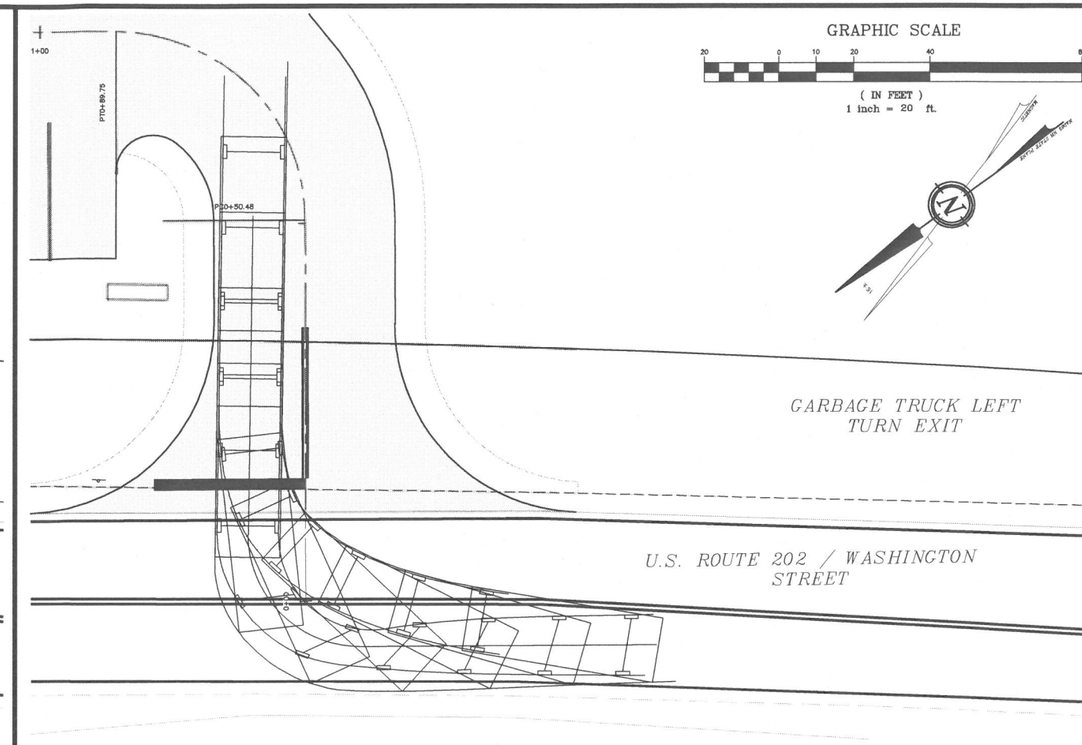
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

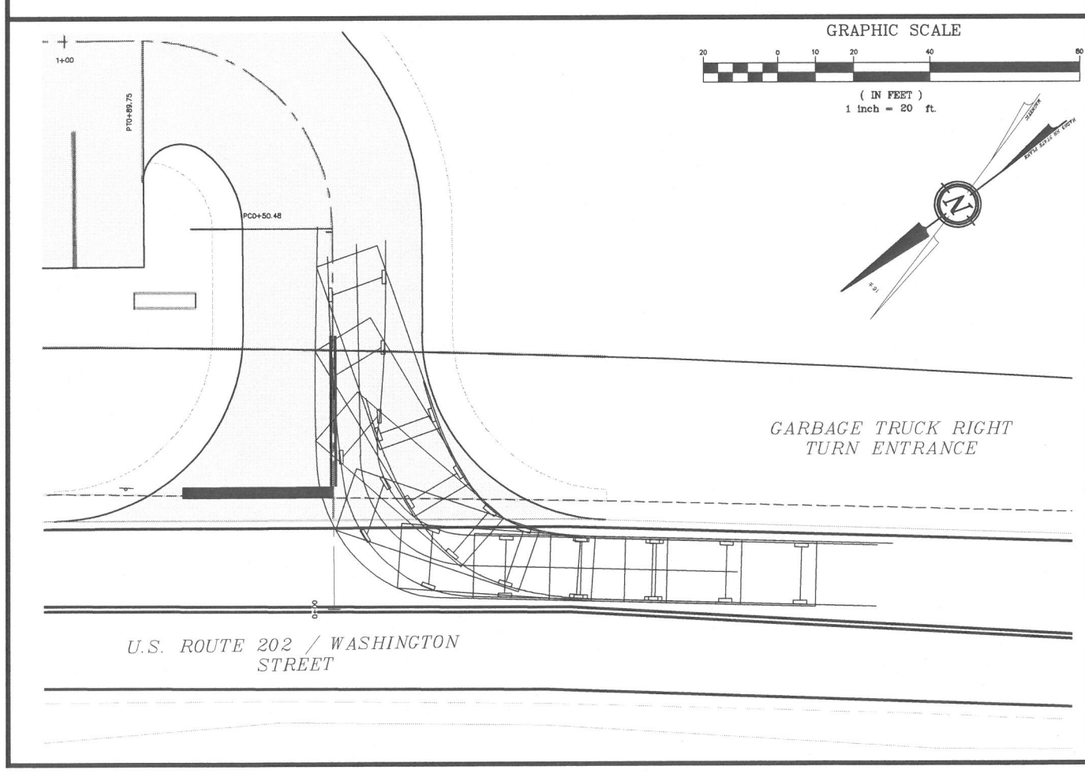
SCALE : AS NOTED
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

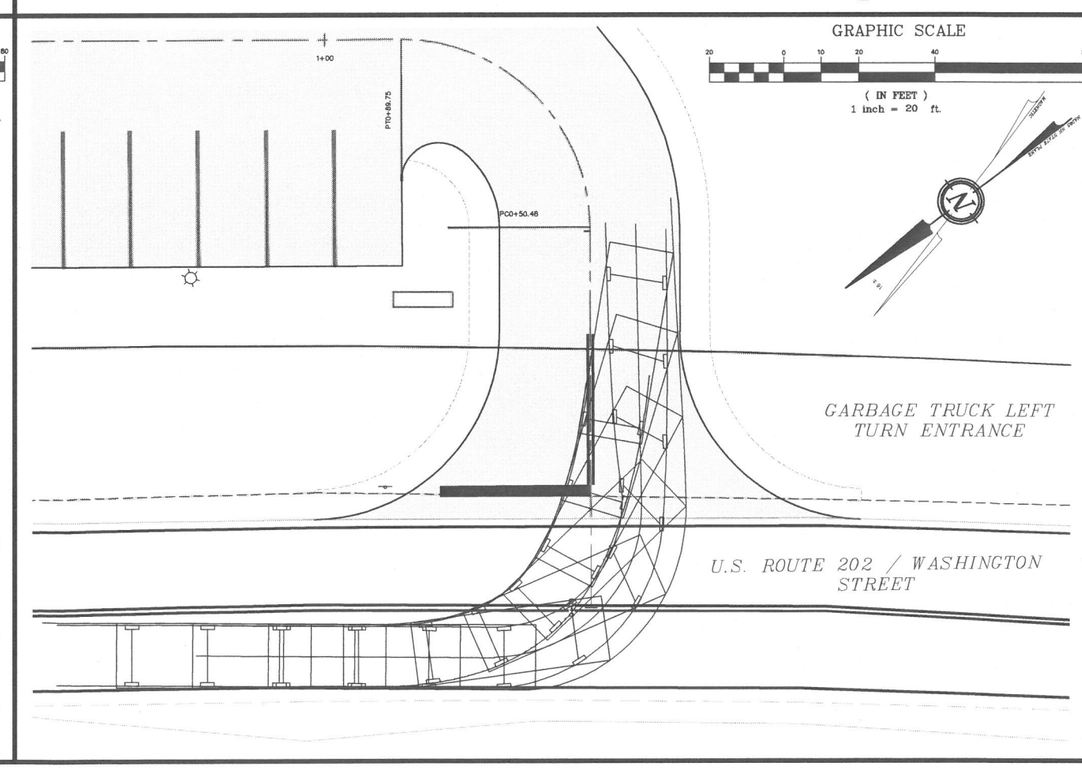
STATE OF NEW HAMPSHIRE — KENNETH A. BERRY No. 7443 — LICENSED PROFESSIONAL ENGINEER

L-101









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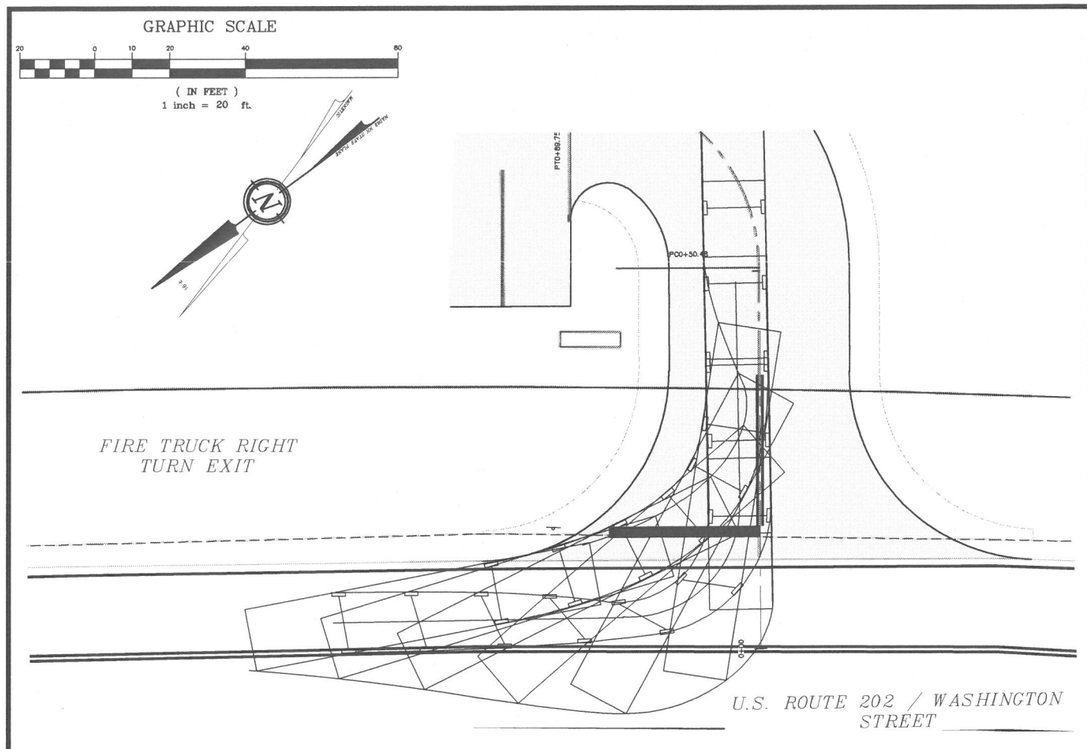
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

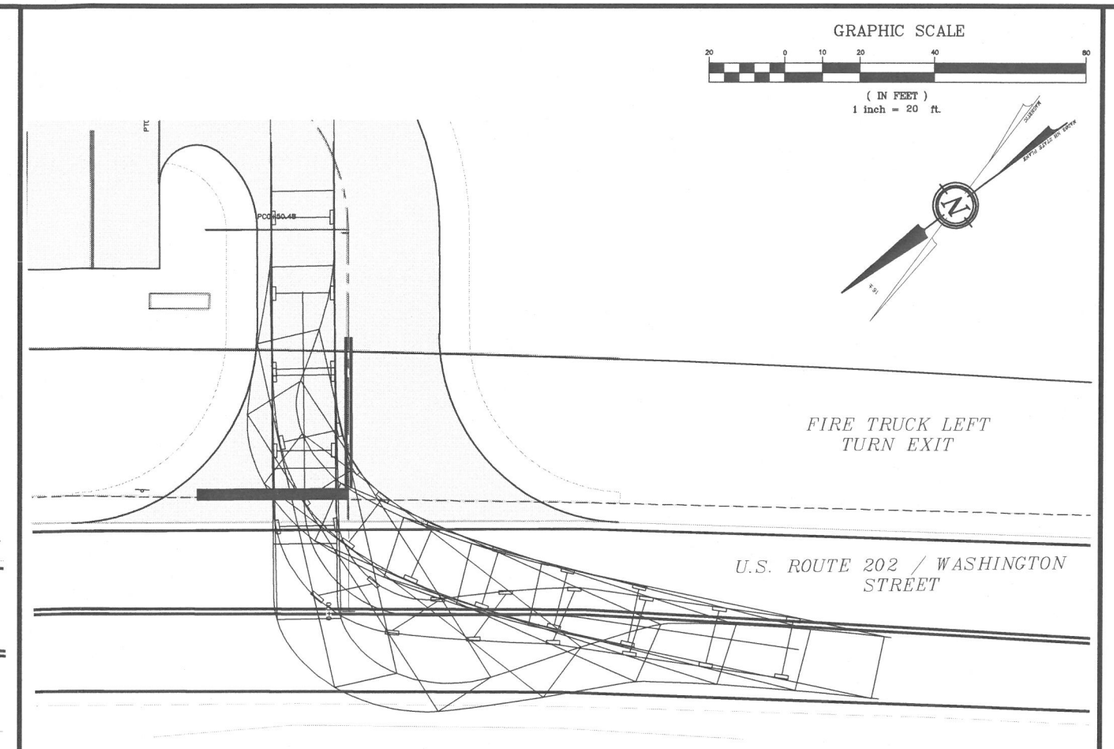
FRONT-END LOADING GARBAGE TRUCK TURN MOVEMENTS
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

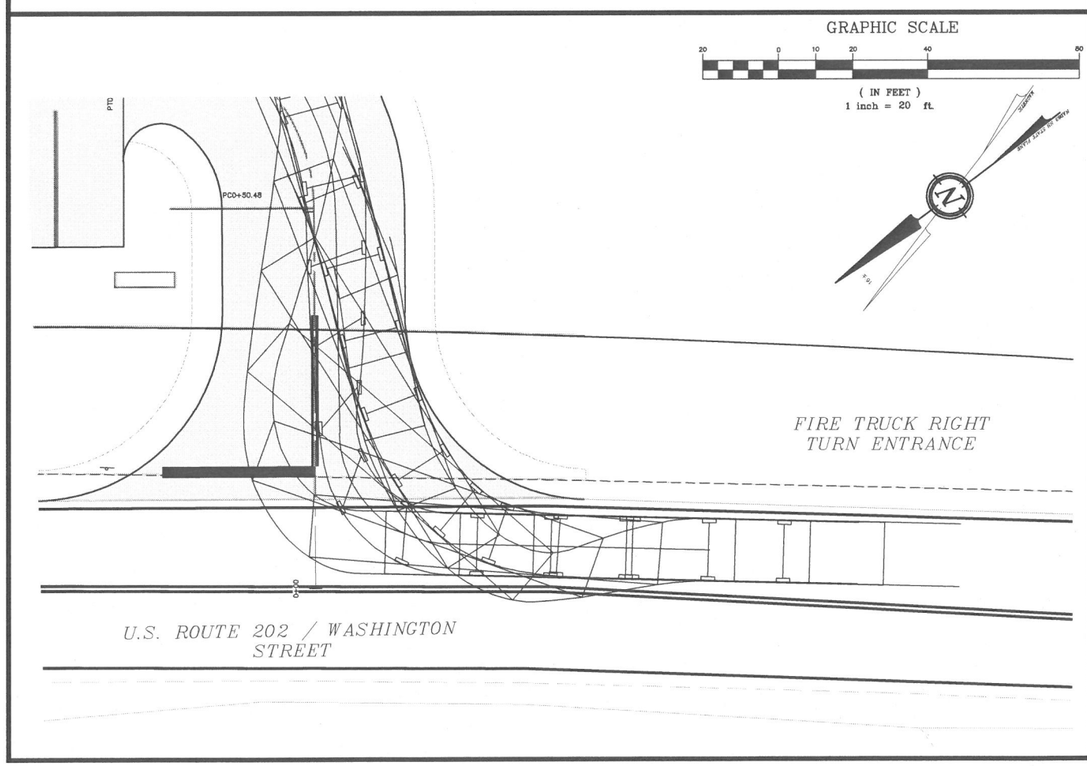
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

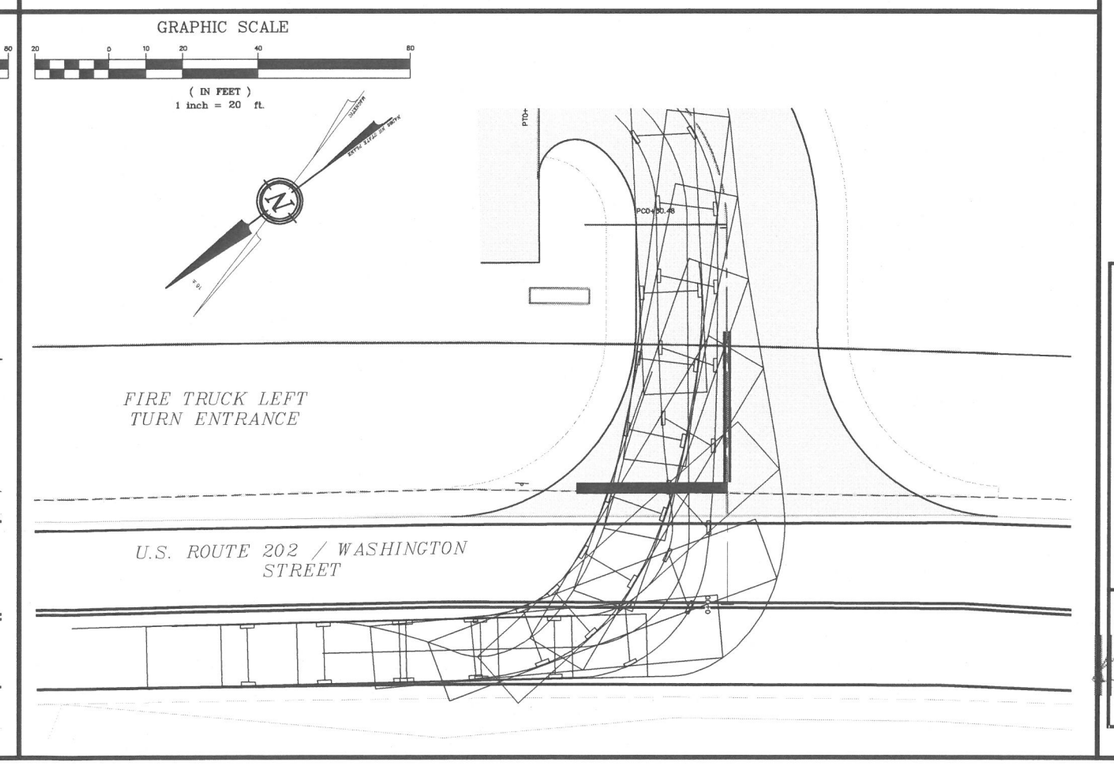
SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 9404
LICENSED
PROFESSIONAL ENGINEER









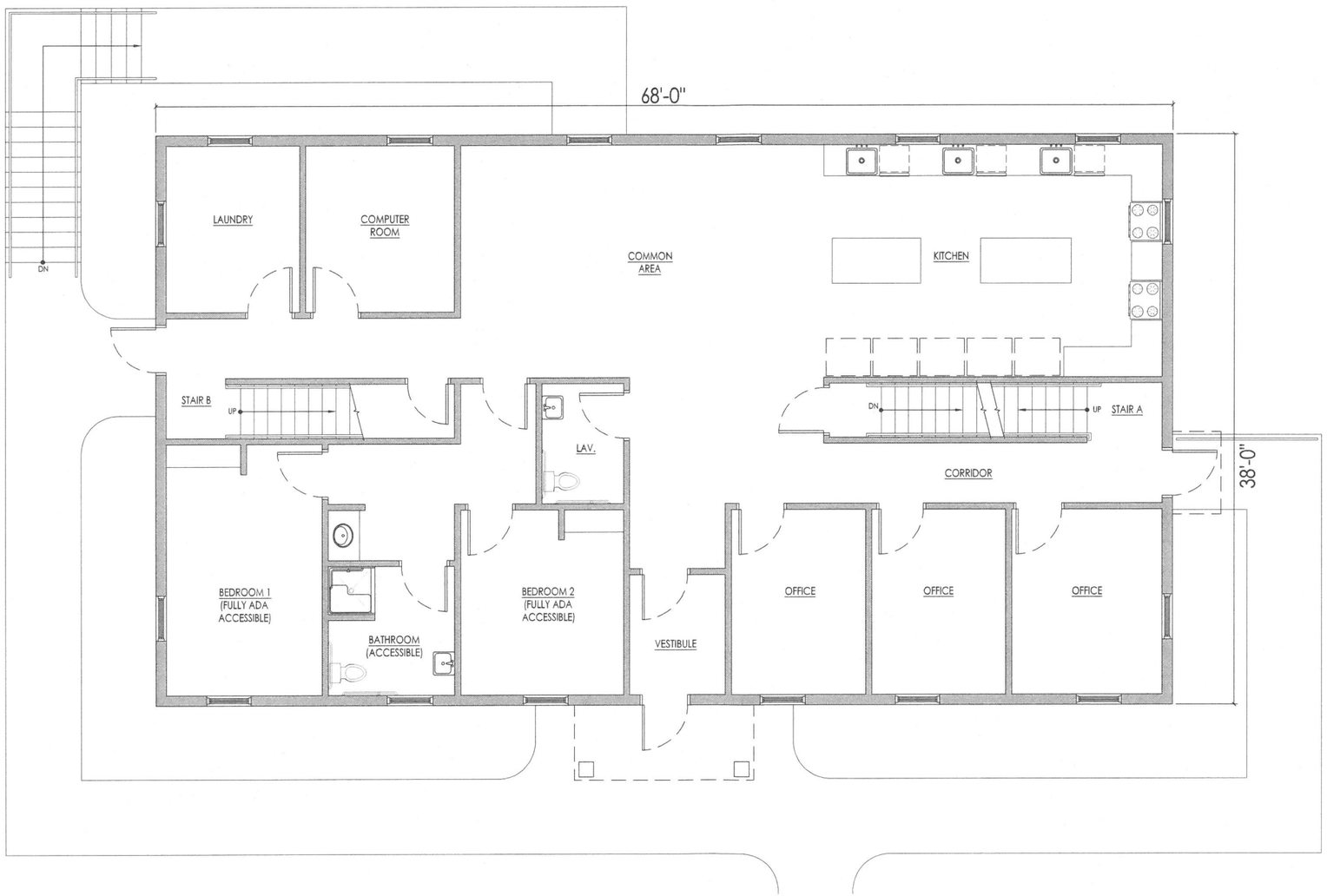
REVISION	DATE	DESCRIPTION
#2	11-10-20	REVISED PER CLIENT REQUEST
#1	9-9-20	SUBMITTED FOR NHDOT DRIVEWAY PERMIT

ROCHESTER FIRE TRUCK TURN MOVEMENTS
LAND OF HOMELESS CENTER FOR STRAFFORD COUNTY
U.S. ROUTE 202 / 202 WASHINGTON STREET
ROCHESTER, N.H.
TAX MAP 246, LOT 22

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : JULY 7, 2020
FILE NO. : DB 2019 - 042

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
LICENSED
PROFESSIONAL ENGINEER



1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

OWNER:

HOMELESS CENTER FOR STRAFFORD COUNTY
9 Isinglass Drive / P.O. Box 7306
Rochester, NH 03839
603.332.3065
Execdirshelter@gmail.com

DESIGN BUILDER:

Careno Construction Company, LLC
Design Build / Construction Managers / General Contractors
270 West Road - Suite 4A
Portsmouth, NH 03801
p. 603.436.1066 f. 603.436.6029
e. build@carenoconstruction.com

PORTONE ARCHITECTS
959 Islington Street
Portsmouth, NH 03801
603.436.8891
info@portonearchitects.com

CIVIL:

BERRY SURVEYING & ENGINEERING
335 Second Crown Point Road
Barrington, NH 03825
603.332.2863

REVISION HISTORY:

#	DATE	ISSUANCE

SEAL:

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LOCUS MAP:

PROJECT NAME:

HOMELESS SHELTER OF STRAFFORD COUNTY
202 WASHINGTON ST.
ROCHESTER, NH

DRAWING TITLE:

FIRST FLOOR PLAN

PROJECT No.: -

DATE: NOVEMBER, 2020

DRAWING SCALE: AS NOTED

SHEET NUMBER:

A1.1

1 SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"

OWNER:

HOMELESS CENTER FOR STRAFFORD COUNTY
9 Isinglass Drive / P.O. Box 7306
Rochester, NH 03839
603.332.3065
Execdirshelter@gmail.com

DESIGN BUILDER:

Carema Construction Company, LLC
Design Build / Construction Managers / General Contractors
230 West Road - Suite 4A
Portsmouth, NH 03801
p. 603.436.1000 f. 603.436.6027
e. build@carematrotracton.com

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959 Islington Street
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CIVIL:

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335 Second Crown Point Road
Barrington, NH 03825
603.332.2863

REVISION HISTORY:

#	DATE	ISSUANCE

SEAL:

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LOCUS MAP:

PROJECT NAME:

HOMELESS SHELTER OF STRAFFORD COUNTY
202 WASHINGTON ST.
ROCHESTER, NH

DRAWING TITLE:

SECOND FLOOR PLAN

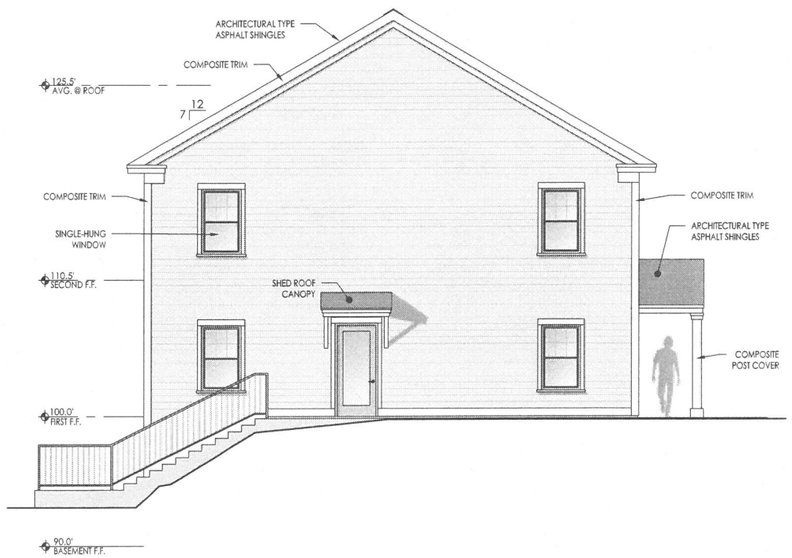
PROJECT No.: -

DATE: NOVEMBER, 2020

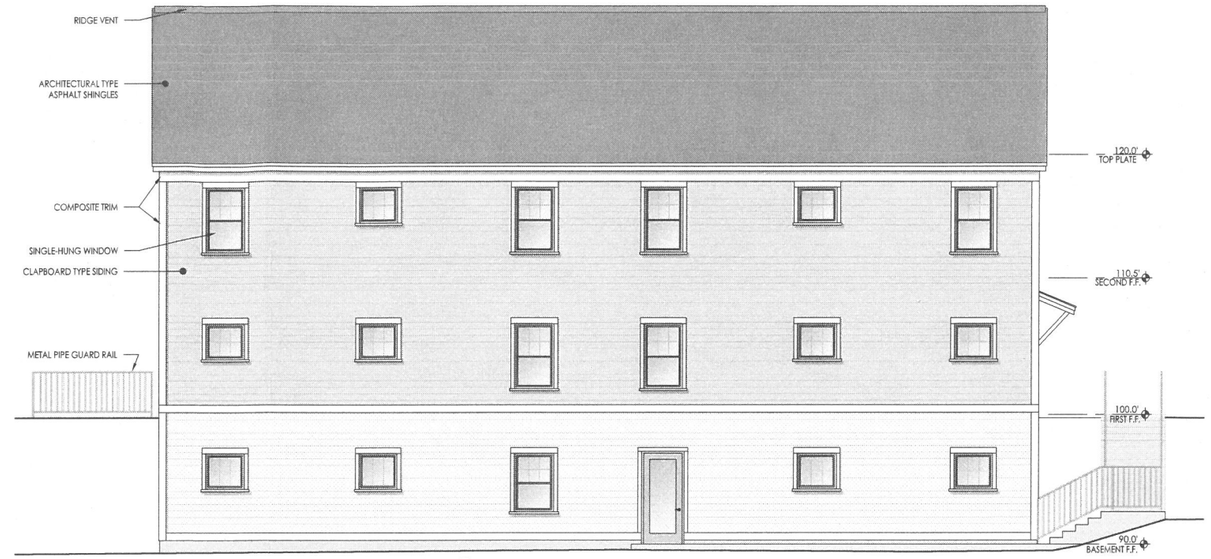
DRAWING SCALE: AS NOTED

SHEET NUMBER:

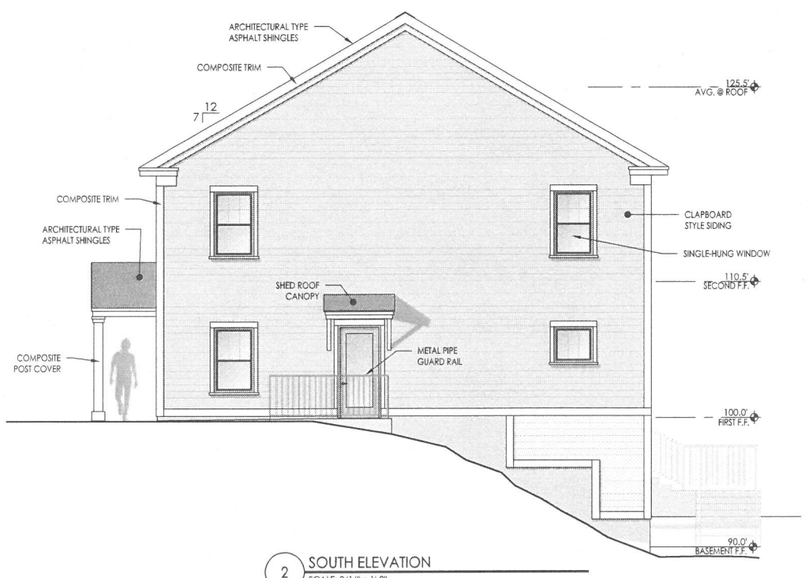
A1.2



4 NORTH ELEVATION
SCALE: 3/16" = 1'-0"



3 EAST ELEVATION
SCALE: 3/16" = 1'-0"



2 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"

1 WEST ELEVATION
SCALE: 3/16" = 1'-0"

OWNER:

HOMELESS CENTER FOR STRAFFORD COUNTY
9 Isinglass Drive / P.O. Box 7306
Rochester, NH 03839
603.332.3065
Execdirshelter@gmail.com

DESIGN BUILDER:

Carena Construction Company, LLC
Design Build · Construction Managers / General Contractors
230 West Road - Suite 4A
Portsmouth, NH 03801
p. 603.436.1066 f. 603.436.6620
e. bcd@carenaconstruction.com

PORTONE ARCHITECTS
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CIVIL:

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335 Second Crown Point Road
Barrington, NH 03825
603.332.2863

REVISION HISTORY:

#	DATE	ISSUANCE

SEAL:

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LOCUS MAP:

PROJECT NAME:

HOMELESS SHELTER OF STRAFFORD COUNTY
202 WASHINGTON ST.
ROCHESTER, NH

DRAWING TITLE:

EXTERIOR ELEVATIONS

PROJECT No.: -

DATE: NOVEMBER, 2020

DRAWING SCALE: AS NOTED

SHEET NUMBER:

A2.1