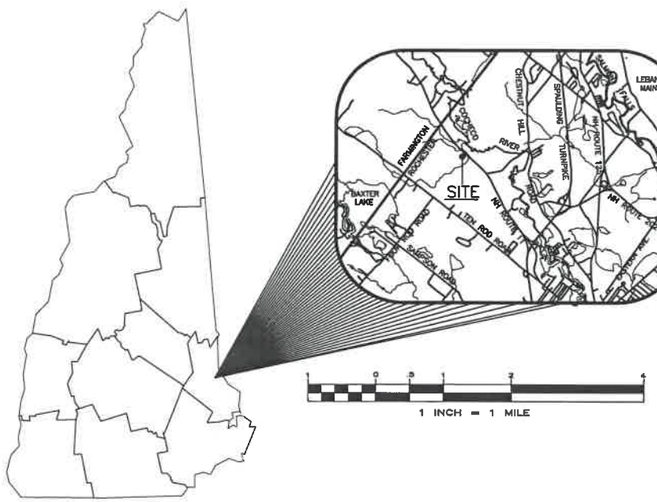
PROPOSED CREDIT UNION BRANCH

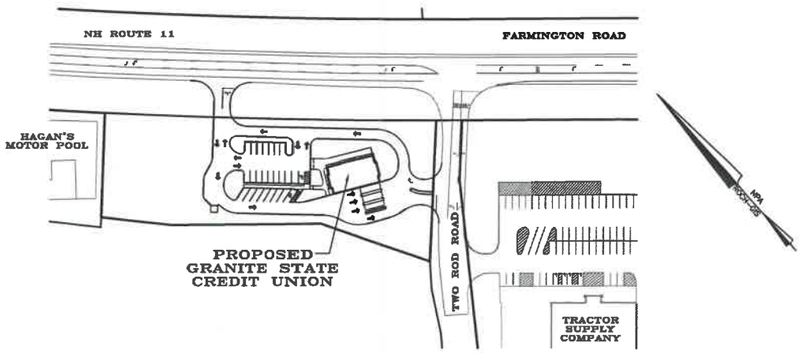
150 FARMINGTON ROAD

PREPARED FOR

GRANITE STATE CREDIT UNION
ROCHESTER, NH
APRIL 2021



Granite State credit union



OVERALL SITE
1" = 100'

STATE AND FEDERAL PERMITS:

STATE OF NEW HAMPSHIRE PERMIT NUMBERS:

NHDES ALTERATION OF TERRAIN:	NOT REQUIRED
NHDES WETLANDS PERMIT:	NOT REQUIRED
NHDES DAM PERMIT:	NOT REQUIRED
NHDES SUBDIVISION PERMIT:	NOT REQUIRED
NHDES SUBSURFACE SYSTEMS PERMIT:	REQUIRED
NHDES WASTEWATER PERMIT:	NOT REQUIRED
NHDOT DRIVEWAY/ENTRANCE PERMIT:	REQUIRED

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

NPDES PERMIT: REQUIRED

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

FOR STATUS OF THIS PERMIT, CONTACT THE PROJECT GENERAL CONTRACTOR.

STATE OF NEW HAMPSHIRE
SCOTT A. LAWLER No. 10024 LICENSED PROFESSIONAL ENGINEER

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

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

LANDSCAPE ARCHITECTS
WOODBURN & COMPANY LANDSCAPE ARCHITECTS, LLC
103 KENT PLACE
NEWMARKET, NEW HAMPSHIRE 03857
(603) 659-5949

OWNER & APPLICANT
GRANITE STATE CREDIT UNION
PO BOX 6420
1415 ELM STREET
MANCHESTER, NEW HAMPSHIRE 03101
(800) 645-4728

DESIGNERS
THE ELEMENT GROUP
155 BREWERY LANE; SUITE 1
PORTSMOUTH, NEW HAMPSHIRE 03301
(603) 319-8951

ARCHITECTS
SHREMSHOCK
7775 WALTON PARKWAY, SUITE 250
NEW ALBANY, OHIO 43054
(514) 545-4550

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

SHEET INDEX

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

LAND SURVEYORS

CIVIL ENGINEERS

LEGEND

- PROPERTY LINE
- SLOPE EASEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING TREE LINE
- EXISTING CONTOUR LINE
- EXISTING DRAIN LINE
- EXISTING OVERHEAD WIRES
- EXISTING CHAINLINK FENCE
- EXISTING WATER MAIN
- EXISTING MONUMENT
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING HYDRANT
- EXISTING WATER GATE OR SHUT-OFF VALVE
- EXISTING LIGHTS
- EXISTING SPOT ELEVATION
- EXISTING TEST PIT LOCATION & NUMBER

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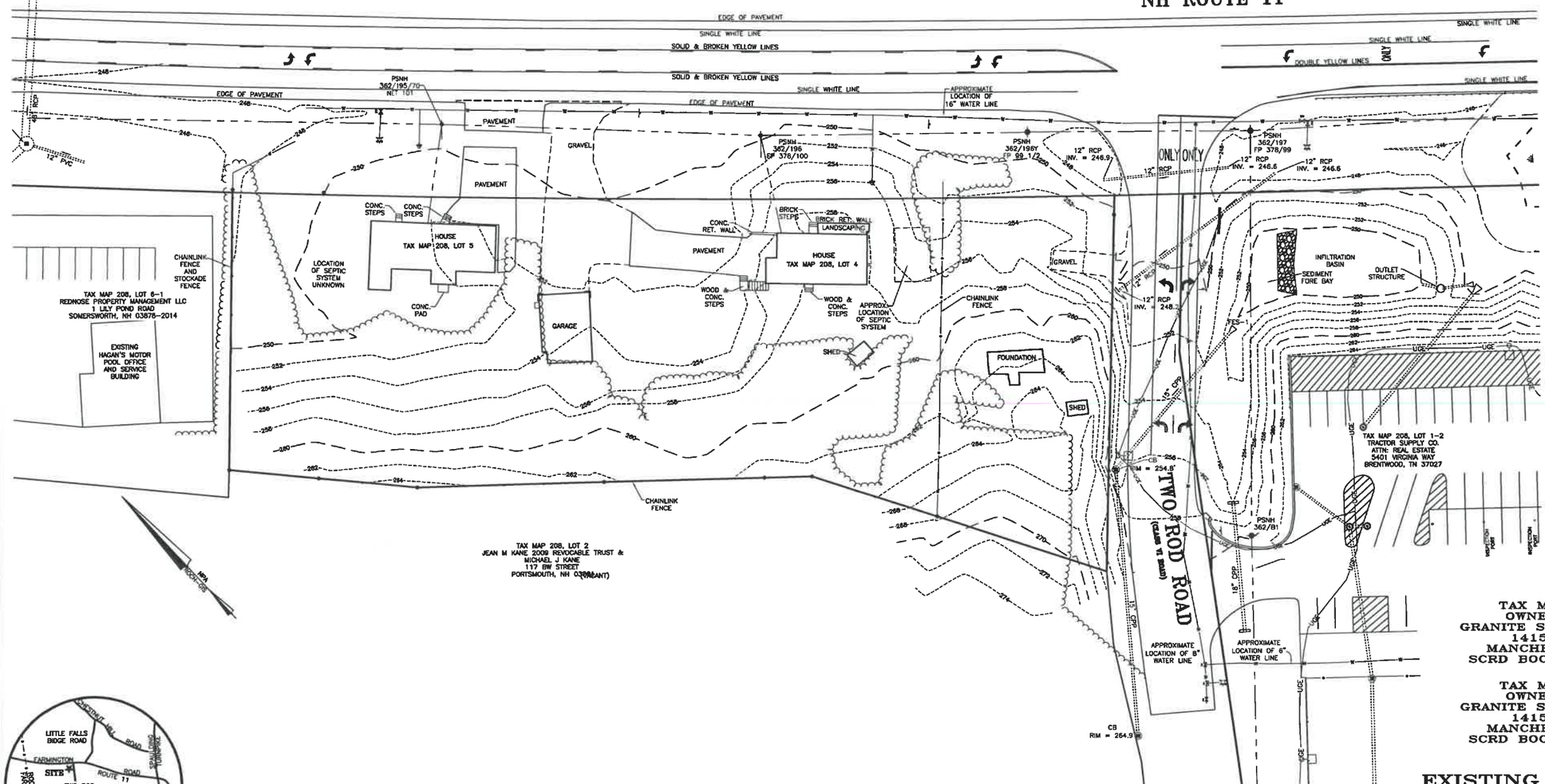
TAX MAP 208, LOT 7
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION
PO BOX 483
CONCORD, NH 03301

TAX MAP 208, LOT 15
CITY OF ROCHESTER
31 WAKEFIELD STREET
ROCHESTER, NH 03867

TAX MAP 208, LOT 16
ROBERT A ROWE, SR.
127 FARMINGTON ROAD
ROCHESTER, NH 03867

REVISIONS:
5/12/2021 - REVISED PER TRG COMMENTS

FARMINGTON ROAD
NH ROUTE 11

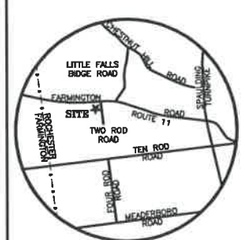


GENERAL SITE PLAN NOTES

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING FEATURES ON TAX MAP 208, LOTS 4 & 5
2. THE PARCELS ARE LOCATED IN THE GRANITE RIDGE DEVELOPMENT (GRD) ZONE AND AQUIFER PROTECTION OVERLAY DISTRICT
3. TOTAL PARCEL AREA:
   MAP 208 - LOT 4: 1.30 ACRES.
   MAP 208 - LOT 5: 0.63 ACRES
4. THE LOT IS SERVICED BY ON SITE SEPTIC SYSTEM AND WELL.
5. DIMENSIONAL REGULATIONS PER ZONING ORDINANCE:
   GRANITE RIDGE DEVELOPMENT (GRD) ZONE:
   MINIMUM LOT AREA = NO DIMENSIONAL STANDARD
   MINIMUM LOT FRONTAGE = 50 FEET
   PAVEMENT SETBACKS:
   FRONT = 10'
   SIDE = 5'
   REAR = 10'
   MINIMUM YARD SETBACKS:
   FRONT = NO DIMENSIONAL STANDARD
   SIDE = NO DIMENSIONAL STANDARD
   REAR = NO DIMENSIONAL STANDARD
   MAXIMUM LOT COVERAGE = NO STANDARD
   MAXIMUM BUILDING HEIGHT = NO STANDARD
7. ORIENTATION: HORIZONTAL AND VERTICAL DATUMS - CITY OF ROCHESTER GIS AND NGVD29
8. THE PARCELS ARE NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY MAP, COMMUNITY #330176D1840 DATED MAY 17, 2005.
9. THE LOCATION OF BOTH EXISTING SEPTICS SYSTEMS AND WELLS ARE NOT KNOWN.

TAX MAP 208, LOT 4
OWNER OF RECORD:
GRANITE STATE CREDIT UNION
1415 ELM STREET
MANCHESTER, NH 03101
SCRD BOOK 4883, PAGE 329

TAX MAP 208, LOT 5
OWNER OF RECORD:
GRANITE STATE CREDIT UNION
1415 ELM STREET
MANCHESTER, NH 03101
SCRD BOOK 4883, PAGE 334



LOCUS MAP
NTS

EXISTING FEATURES PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 INCH = 30 FT.

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

E-1

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

NORWAY PLAINS ASSOCIATES, INC.

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

LAND SURVEYORS

CIVIL ENGINEERS

LEGEND

- PROPERTY LINE
- SLOPE EASEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING TREE LINE
- EXISTING CONTOUR LINE
- EXISTING DRAIN LINE
- EXISTING OVERHEAD WIRES
- EXISTING CHAINLINK FENCE
- EXISTING WATER MAIN
- EXISTING MONUMENT
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING HYDRANT
- EXISTING WATER GATE OR SHUT-OFF VALVE
- EXISTING LIGHTS
- EXISTING SPOT ELEVATION
- TREES TO BE REMOVED

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

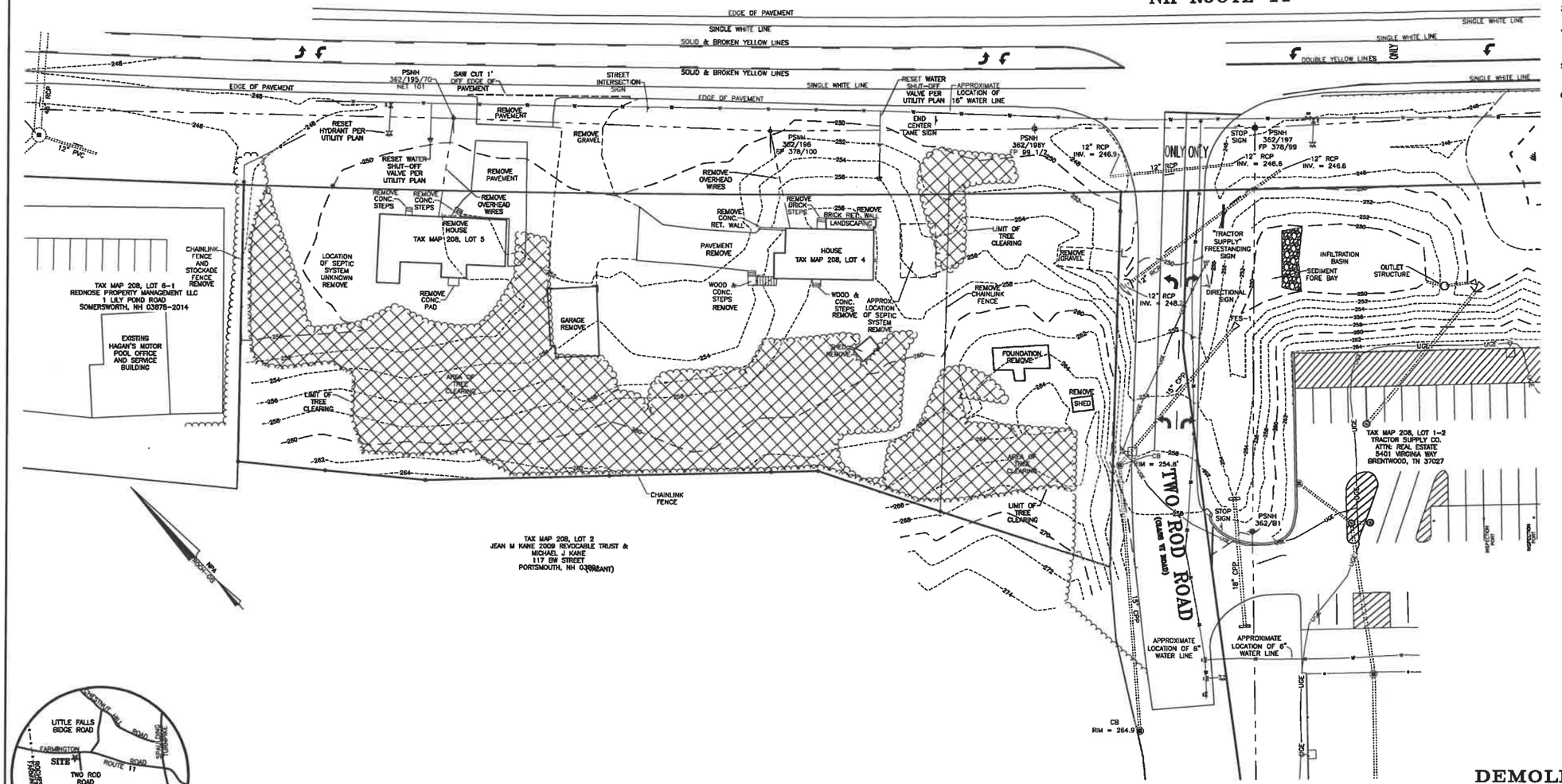
TAX MAP 208, LOT 7
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION
PO BOX 483
CONCORD, NH 03301

TAX MAP 208, LOT 15
CITY OF ROCHESTER
31 WAKEFIELD STREET
ROCHESTER, NH 03867

TAX MAP 208, LOT 16
ROBERT A ROWE, SR.
127 FARMINGTON ROAD
ROCHESTER, NH 03867

REVISIONS:
5/12/2021 – REVISED PER TRC COMMENTS

EXISTING FEATURES AND DEMOLITION NOTES:
1. EXISTING STRUCTURES ARE SERVICED BY ON SITE SEPTICS AND WELLS. THE LOCATION OF THE WELLS, SEPTIC TANKS AND LEACH FIELDS SHOWN ARE APPROXIMATES OR LOCATION IS UNKNOWN.
2. EXISTING WELL PUMPS TO BE REMOVED, WELL CASING REMOVED TO A POINT 3 FEET BELOW SUBGRADE, FILLED WITH FLOWABLE FILL AND CAPPED.
3. EXISTING SEPTIC TANKS AND LEACH FIELDS TO BE REMOVED AND DISPOSED WITH OFF SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
4. LIMITS OF TREE CLEARING ON PARCELS ARE APPROXIMATE. DEAD, DISEASED, OR HAZARDOUS TREES LOCATED ON THE PROPERTIES NEAR THE LIMIT OF CLEARING SHALL BE EVALUATED TO DETERMINE IF THEY SHOULD BE REMOVED AT THE TIME OF CONSTRUCTION.
5. REMOVAL OF ALL HOUSES AND FOUNDATION SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS AND REQUIRES A DEMOLITION PERMIT FROM THE CITY OF ROCHESTER.
6. COORDINATE ALL UTILITY DISCONNECTIONS AND/OR RELOCATION WITH THE RESPONSIBLE UTILITY COMPANY OR THE ROCHESTER DEPARTMENT OF PUBLIC WORKS PRIOR TO START OF WORK.



LOCUS MAP
NTS

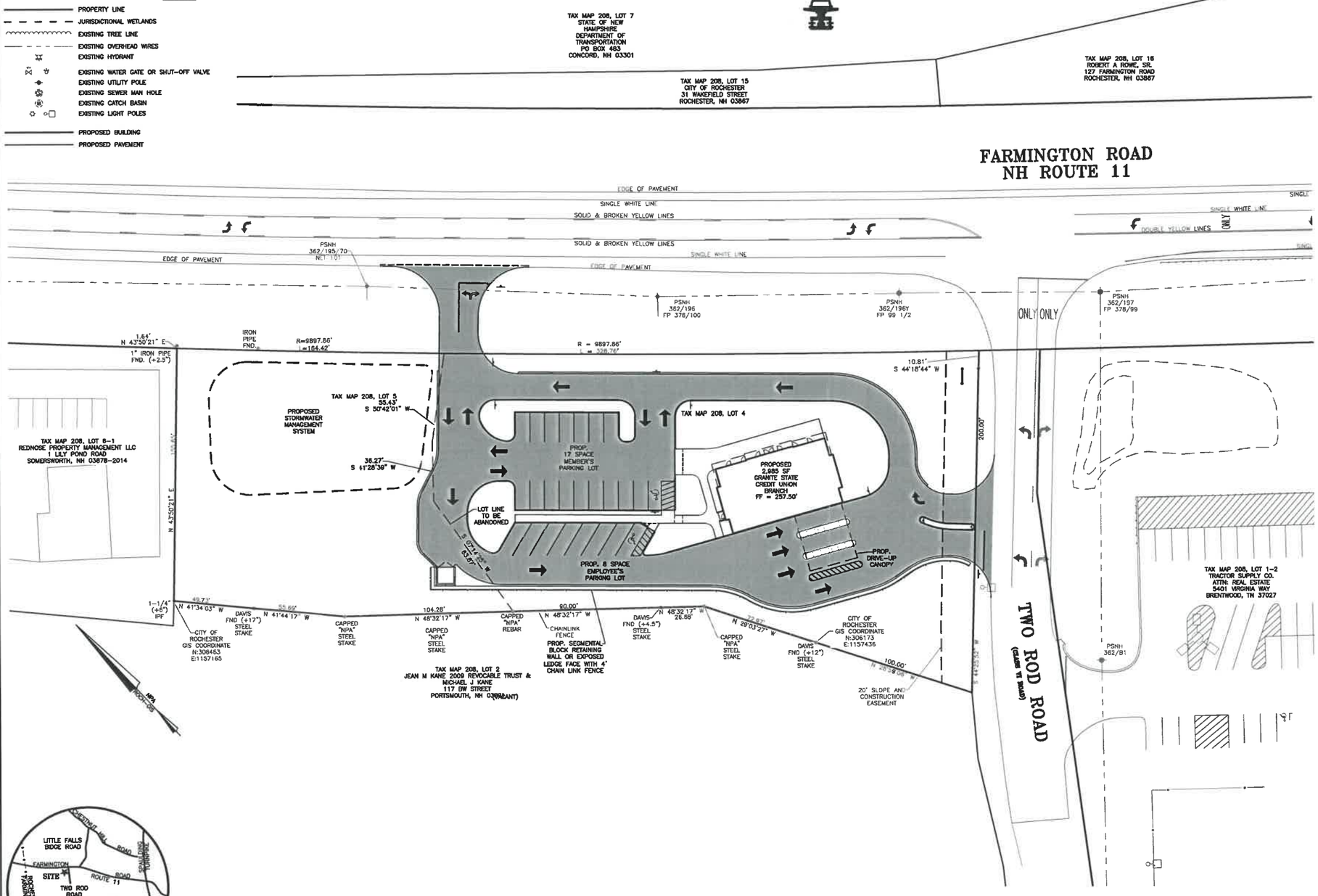
DEMOLITION PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
GRANITE STATE CREDIT UNION
APRIL 2021
GRAPHIC SCALE

30 0 15 30 60 120
(IN FEET)
1 INCH = 30 FT.

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

E-2

31 Mooney Street, Alton, N.H. 603-875-3948
NORWAY PLAINS ASSOCIATES, INC.
2 Continental Blvd., Rochester, N.H. 603-335-3948



LOCUS MAP
NTS

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

SITE REVIEW APPROVAL

WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SITE REVIEW PLAN, THE SITE REVIEW APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILIGENT ADHERENCE BY THE OWNER/DEVELOPER TO ALL WRITTEN AND VERBAL REPRESENTATIONS MADE REGARDING SUCH MATTERS AS USE, NUMBER OF EMPLOYEES, DRAINAGE, CONSTRUCTION, ETC. AS WELL AS ALL OTHER TERMS, CONDITIONS, PROVISIONS, REQUIREMENTS AND SPECIFICATIONS OF THE SITE PLAN REVIEW REGULATIONS OF THE CITY OF ROCHESTER, N.H., AS AMENDED, IN EFFECT ON THE DATE OF APPROVAL. ANY VARIATION FROM THE PROPOSAL AS APPROVED MAY ALSO REQUIRE THE SUBMISSION AND APPROVAL OF A NEW SITE REVIEW APPLICATION.

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

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

STATE OF NEW HAMPSHIRE
SCOTT A. LANLER
No. 10024
LICENSED PROFESSIONAL ENGINEER

REVISIONS:
5/12/2021 – REVISED PER TRG COMMENTS

GENERAL SITE PLAN NOTES

1. THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED CREDIT UNION ON TAX MAP 208, LOTS 4 & 5
2. THESE PARCELS ARE LOCATED IN THE GRANITE RIDGE DEVELOPMENT (GRD) ZONE AND AQUIFER PROTECTION OVERLAY DISTRICT.
3. TOTAL PARCEL AREA:
   MAP 208 – LOT 4: 1.30 ACRES
   MAP 208 – LOT 5: 0.63 ACRES
4. THE LOT IS SERVICED BY ON SITE SEPTIC SYSTEM AND WELL.
5. DIMENSIONAL REGULATIONS PER ZONING ORDINANCE:
   GRANITE RIDGE DEVELOPMENT (GRD) ZONE:
   MINIMUM LOT AREA = NO DIMENSIONAL STANDARD
   MINIMUM LOT FRONTAGE = 50 FEET
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   SIDE = 5'
   REAR = 10'
   MINIMUM YARD SETBACKS:
   FRONT = NO DIMENSIONAL STANDARD
   SIDE = NO DIMENSIONAL STANDARD
   REAR = NO DIMENSIONAL STANDARD
   MAXIMUM LOT COVERAGE = NO STANDARD
   MAXIMUM BUILDING HEIGHT = NO STANDARD
7. ORIENTATION: HORIZONTAL AND VERTICAL DATUMS – CITY OF ROCHESTER GIS AND NAVD29
8. THE PARCEL IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY MAP, COMMUNITY #330017C0184D DATED MAY 17, 2005.
9. JURISDICTIONAL WETLAND WERE EVALUATED BY B.H. KEITH, NH CERTIFIED WETLAND SCIENTIST #077, ON JANUARY 9, 2020 AND WAS DETERMINED THERE WERE NONE ON THESE PARCELS.
10. SOILS SERIES TYPES ARE PER NATURAL RESOURCES CONSERVATION SERVICE.
    CHARLTON FINE SANDY LOAM , 8 TO 15 PRECENT SLOPES.
    HINCKLEY LOAMY SAND, 3 TO 8 PERCENT SLOPES.
11. PARKING REQUIREMENTS (SITE PLAN REGULATIONS SECTION 10(A))
    BANK – 3 SPACES PER 1,000 GROSS FLOOR AREA.
    REQUIRED: 3 SPACES/1,000 GSF * 2,985 GSF = 9 SPACES
    PROVIDED: 25 SPACES INCLUDING 2 ACCESSIBLE SPACE
12. FOR MORE INFORMATION ABOUT THIS SITE PLAN, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867. (603)335-1338.
13. THIS DEVELOPMENT MUST BE IN COMPLIANCE WITH ALL APPLICABLE LAW – INCLUDING ALL PERTINENT PROVISIONS OF THE CITY OF ROCHESTER SITE PLAN REGULATIONS – UNLESS OTHERWISE WAIVED.
14. THE APPLICANT SHALL OBTAIN A STORMWATER MANAGEMENT PERMIT FROM THE PUBLIC WORKS DEPARTMENT (UNLESS DETERMINED TO BE UNNECESSARY BY THE CITY ENGINEER) AND FOLLOW THE REQUIREMENTS OF THE CITY ORDINANCE CHAPTER 218. THE PERMITTEE SHALL PREPARE A WRITTEN PLAN FOR MANAGING STORMWATER THAT ENTERS THE CONSTRUCTION SITE AND SHALL PRESENT IT TO THE INSPECTION ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE PERMITTEE SHALL FOLLOW BEST MANAGEMENT PRACTICES TO PREVENT EROSION IN AREAS WHERE SOIL HAS BEEN DISTURBED.
15. ACCESS INTO THE SITE FOR FIRE APPARATUS MUST BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS. THIS IS THE SOLE RESPONSIBILITY OF THE APPLICANT/DEVELOPER TO MAINTAIN THIS ACCESS. PLEASE CONTACT THE FIRE DEPARTMENT AT 330-7182 WITH ANY QUESTIONS ABOUT ACCESS REQUIREMENTS.
16. SNOW SHALL NOT BE PILED IN SUCH A MANNER AS TO BLOCK THE VISIBILITY OF THE VEHICLES ON NH ROUTE 11 OR TWO ROD ROAD AND ALL EXCESS SNOW SHALL BE REMOVED FROM THE SITE.
17. ALL OUTSIDE CONSTRUCTION ACTIVITY RELATED TO THE DEVELOPMENT OF THIS SITE IS RESTRICTED TO THE HOURS OF 7:00 A.M. TO 8:00 P.M. MONDAY THROUGH FRIDAY AND 8:00 A.M. TO 6:00 P.M. SATURDAY.
18. ALL UTILITIES MUST BE UNDERGROUND, INCLUDING UTILITIES EXTENDED ONTO THE SITE FROM EXISTING POLES NEAR THE SITE. HOWEVER, IF THE ONLY POLE NEARBY IS ACROSS THE STREET, ONE ADDITIONAL POLE MAY BE PLACED ON/NEAR THE PROPERTY TO ALLOW FOR OVERHEAD EXTENSION OF WIRES ACROSS THE STREET. UTILITIES EXTENDING FROM ANY SUCH NEW POLE MUST BE UNDERGROUND. THE APPLICANT MAY WORK WITH THE CITY STAFF AS APPROPRIATE TO ADDRESS THIS REQUIREMENT.
19. ALL ELEMENTS SHOWN ON THE APPROVED SITE PLAN MUST BE PROPERLY COMPLETED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, UNLESS APPROPRIATE SURETY IS PLACED WITH THE PLANNING DEPARTMENT.
20. NOTE THAT THIS APPROVAL IS FOR THE SITE PLAN ONLY. LIFE SAFETY CODE AND BUILDING CODE REVIEW WILL BE REQUIRED AS PART OF THE BUILDING PERMIT PROCESS WHEN THE CONSTRUCTION PLANS ARE SUBMITTED. VARIOUS REQUIREMENTS REGARDING THE BUILDING DESIGN POSSIBLY INCLUDING A SPRINKLER SYSTEM – MAY BE SPECIFIED AT THAT TIME.

TAX MAP 208, LOT 4
OWNER OF RECORD:
GRANITE STATE CREDIT UNION
1415 ELM STREET
MANCHESTER, NH 03101
SCRD BOOK 4883, PAGE 329

TAX MAP 208, LOT 5
OWNER OF RECORD:
GRANITE STATE CREDIT UNION
1415 ELM STREET
MANCHESTER, NH 03101
SCRD BOOK 4883, PAGE 334

OVERALL SITE PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 INCH = 30 FT.

C-1

LAND SURVEYORS

CIVIL ENGINEERS

LEGEND

- PROPERTY LINE
- EXISTING TREE LINE
- EXISTING OVERHEAD WIRES
- EXISTING HYDRANT
- EXISTING WATER GATE OR SHUT-OFF VALVE
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING LIGHT POLES
- PROPOSED BUILDING
- PROPOSED PAVEMENT
- SGC PROPOSED PAVEMENT WITH CURBING
- PROPOSED TREE LINE
- PROPOSED BLOCK RETAINING WALL
- PROPOSED PAVEMENT (STANDARD)
- PROPOSED CONCRETE
- PROPOSED DETECTABLE WARNING PAVERS
- PROPOSED SIGNS
- BCC BITUMINOUS CAPE CODE
- SGC SLOPED GRANITE CURB BERM
- R20' PAVEMENT RADIUS (20')
- PROPOSED STANDARD PARKING SPACES (9' x 18')
- PROPOSED VAN ACCESSIBLE PARKING SPACES (8' x 18' WITH 8' x 18' ACCESS ISLE)
- PROPOSED ACCESSIBLE PARKING SPACES (8' x 18' WITH 5' x 18' ACCESS ISLE)

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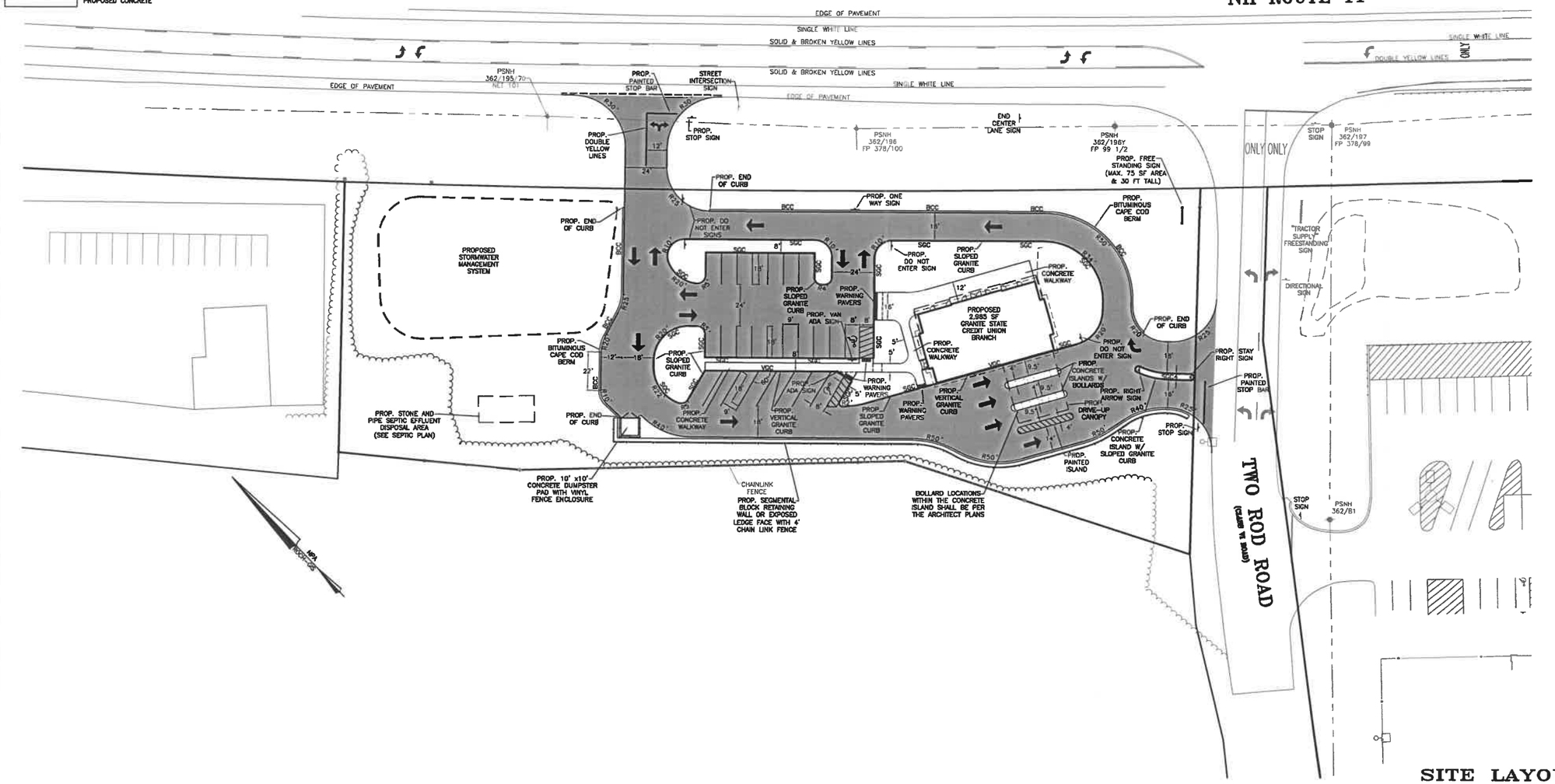
STATE OF NEW HAMPSHIRE – SCOTT A. LAWLER No. 10024 LICENSED PROFESSIONAL ENGINEER

REVISIONS:
5/12/2021 – REVISED PER TRG COMMENTS

FARMINGTON ROAD
NH ROUTE 11



SITE LAYOUT PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 INCH = 30 FT.

C-2

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

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

LAND SURVEYORS

CIVIL ENGINEERS

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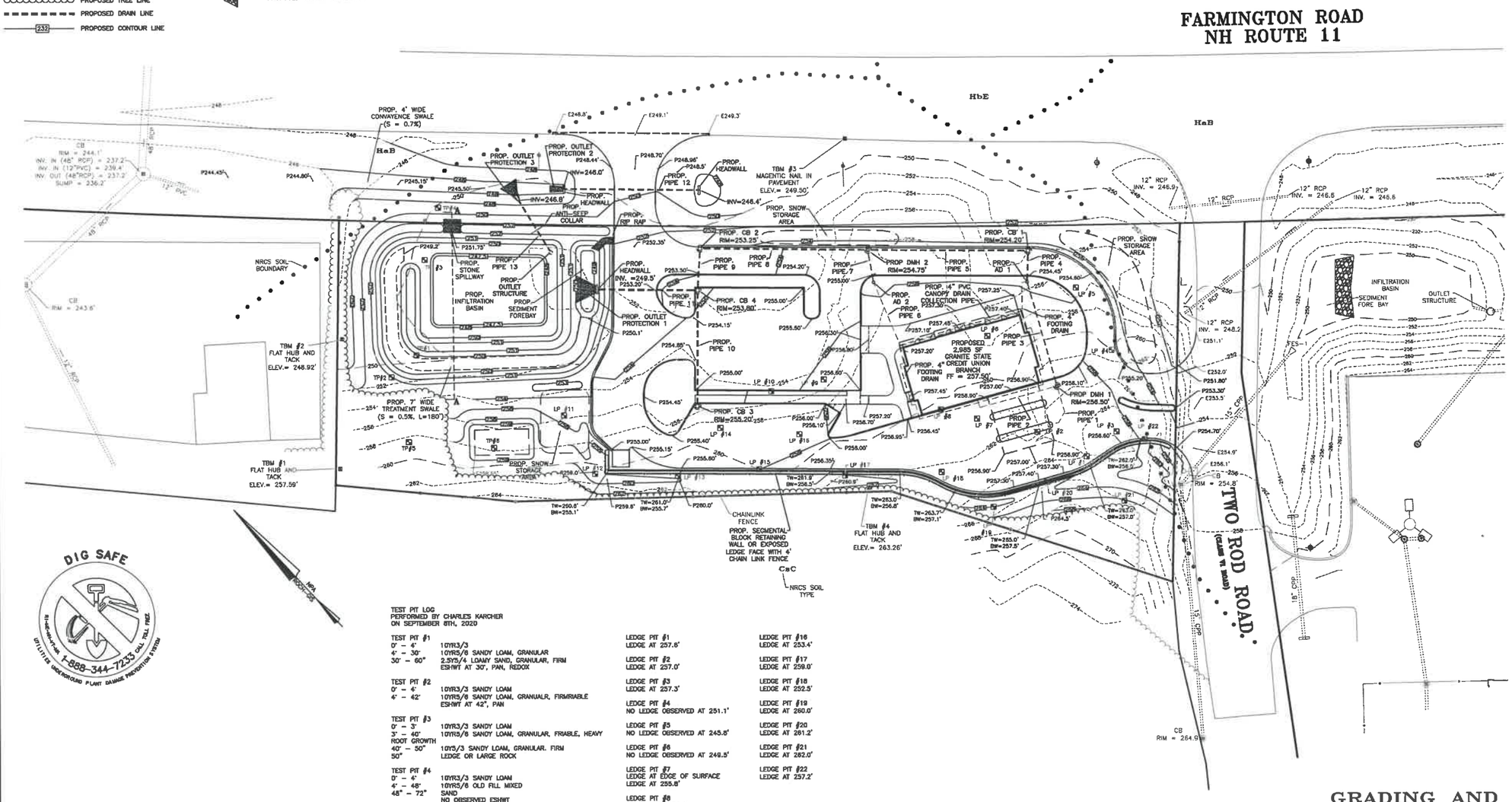
STATE OF NEW HAMPSHIRE
SCOTT A. LAWLER
No. 10024
LICENSED PROFESSIONAL ENGINEER

REVISIONS:
5/12/2021 – REVISED PER TRG COMMENTS

LEGEND

- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- EXISTING TREE LINE
- EXISTING DRAIN LINE
- 232 EXISTING CONTOUR LINE
- EXISTING CATCH BASIN
- TP#8 EXISTING TEST PIT
- E234.1' EXISTING SPOT GRADE
- P234.25' PROPOSED SPOT GRADE
- PROPOSED TREE LINE
- PROPOSED DRAIN LINE
- 232 PROPOSED CONTOUR LINE
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- PROPOSED FLARED END SECTION (FES)
- CPP CORRUGATED POLYETHINE PIPE
- CB CATCH BASIN
- AD AREA DRAIN
- TW TOP OF WALL
- BW BOTTOM OF WALL
- PROPOSED OUTLET PROTECTION



PROPOSED DRAINAGE TABLE

PROP. DMH 1
RIM = 256.50'
INV. IN (3") = 253.10'
INV. IN (4") = 253.00'
INV. OUT (8") = 252.60'

PROP. AD 1
RIM = 254.00'
INV. IN (4") = 252.25'
INV. IN (8") = 252.00'
INV. OUT (8") = 252.00'

PROP. AD 2
RIM = 254.50'
INV. IN (6") = 253.00'
INV. OUT (8") = 252.50'

PROP. DMH 2
RIM = 254.75'
INV. IN (8") = 252.00'
INV. IN (12") = 251.10'
INV. OUT (12") = 251.00'

PROP. CB 1
RIM = 254.20'
INV. IN (8") = 251.75'
INV. OUT (12") = 251.55'
SUM = 248.55'

PROP. CB 2
RIM = 253.25'
INV. IN (12") = 250.50'
INV. OUT (12") = 250.40'
SUMP = 247.30'

PROP. CB 3
RIM = 255.20'
INV. OUT (12") = 251.40'
SUMP = 248.40'

PROP CB 4
RIM = 253.80'
INV. IN (12") = 250.80'
INV. IN (12") = 250.15'
INV. OUT (15") = 250.00'
SUMP = 246.00'*

PROP. OUTLET STRUCTURE
RIM 250.50'
INV. OUT (12") = 247.00'
SUMP = 244.00'

* WITH ELIMINATOR OIL AND DEBRIS TRAP

PROP. PIPE 1
3" SDR35 PVC
L = 28'
S = 0.5%

PROP. PIPE 2
4" SDR35 PVC
L = 92'
S = 0.5%

PROP. PIPE 3
8" CPP
L = 62'
S = 1.0%

PROP. PIPE 4
8" CPP
L = 18'
S = 1.4%

PROP. PIPE 5
12" CPP
L = 90'
S = 0.5%

PROP. PIPE 6
3" CPP
L = 38'
S = 6.0%

PROP. PIPE 7
8" CPP
L = 20'
S = 2.5%

PROP. PIPE 8
12" CPP
L = 65'
S = 0.5%

PROP. PIPE 9
12" CPP
L = 21'
S = 1.1%

PROP. PIPE 10
12" CPP
L = 64'
S = 1.0%

PROP. PIPE 11
15" RCP
L = 56'
S = 0.9%

PROP. PIPE 12
12" CPP
L = 80'
S = 0.5%

PROP. PIPE 13
12" CPP
L = 35'
S = 0.6%
WITH ANTI-SEEP COLLAR

DIG SAFE
1-888-344-7233 CALL TOLL FREE
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

TEST PIT LOG
PERFORMED BY CHARLES KARCHER
ON SEPTEMBER 8TH, 2020

TEST PIT #1
0" – 4" 10YR3/3
4" – 30" 10YR5/8 SANDY LOAM, GRANULAR
30" – 60" 2.5Y5/4 LOAMY SAND, GRANULAR, FIRM ESHWT AT 30", PAN, REDOX

TEST PIT #2
0" – 4" 10YR3/3 SANDY LOAM
4" – 42" 10YR5/8 SANDY LOAM, GRANUALR, FIRMRIABLE ESHWT AT 42", PAN

TEST PIT #3
0" – 3" 10YR3/3 SANDY LOAM
3" – 40" 10YR5/8 SANDY LOAM, GRANULAR, FRIABLE, HEAVY ROOT GROWTH
40" – 50" 10Y5/3 SANDY LOAM, GRANULAR. FIRM
50" LEDGE OR LARGE ROCK

TEST PIT #4
0" – 4" 10YR3/3 SANDY LOAM
4" – 48" 10YR5/6 OLD FILL MIXED SAND
48" – 72" NO OBSERVED ESHWT

PERFORMED BY ASHLEY F. ROWE
NHDES DESIGNER 1857
ON MARCH 9, 2021

TEST PIT #5
0" – 5" 10YR3/2 LOAM TOPSOIL, COMMON ROOTS
5" – 14" 10YR4/6 SANDY LOAM, GRANULAR, LOOSE
14" – 56" 10YR5/8 LOAMY FINE SAND, GRANULAR, LOOSE
56" REFUSAL ON LEDGE
NO OBSERVER ESHWT

TEST PIT #6
0" – 10" 10YR3/2 LOAM TOPSOIL, COMMON ROOTS
10" – 24" 10YR3/2 MEDIUM SANDS, SINGLE GRAIN, LOOSE
24" – 38" 10YR5/6 FINE SAND, SINGLE GRAIN, LOOSE
38" – 68" 10YR5/2 VERY FINE LOAMY SAND, FRIABLE , BLOCKLY, FIRM IN PLACE
68" REFULSAL ON LEDGE
NO OBSERVED ESHWT

LEDGE PIT #1 LEDGE AT 257.6'
LEDGE PIT #2 LEDGE AT 257.0'
LEDGE PIT #3 LEDGE AT 257.3'
LEDGE PIT #4 NO LEDGE OBSERVED AT 251.1'
LEDGE PIT #5 NO LEDGE OBSERVED AT 245.8'
LEDGE PIT #6 NO LEDGE OBSERVED AT 249.5'
LEDGE PIT #7 LEDGE AT EDGE OF SURFACE LEDGE AT 255.8'
LEDGE PIT #8 REFUSAL AT 254.4'
LEDGE PIT #9 LEDGE AT 250.4'
LEDGE PIT #10 LEDGE AT 250.7'
LEDGE PIT #11 NO LEDGE OBSERVED AT 245.8'
LEDGE PIT #12 LEDGE AT 252.5'
LEDGE PIT #13 NO LEDGE OBSERVED AT 251.3'
LEDGE PIT #14 NO LEDGE OBSERVED AT 247.8'
LEDGE PIT #15 LEDGE AT 249.5'
LEDGE PIT #16 LEDGE AT 253.4'
LEDGE PIT #17 LEDGE AT 259.0'
LEDGE PIT #18 LEDGE AT 252.5'
LEDGE PIT #19 LEDGE AT 260.0'
LEDGE PIT #20 LEDGE AT 261.2'
LEDGE PIT #21 LEDGE AT 262.0'
LEDGE PIT #22 LEDGE AT 257.2'

SNOW STORAGE CALCULATIONS:
1 SQUARE FOOT OF STORAGE AREA FOR EVERY 5 TO 10 SQUARE FEET OF AREA TO BE CLEARED
SNOW STORAGE REQUIRED = 29,500 SF /10 = 2,950 SQUARE FEET
SNOW STORAGE PROVIDED = 3,200 SQUARE FEET
ALL EXCESS SNOW SHALL BE REMOVED FROM THE SITE IF SNOW PILES OR BANKS ARE RESTRICTING VISIBILITY WITHIN THE SITE OR AT THE DRIVEWAY INTERSECTIONS WITH ROUTE 11 / FARMINGTON ROAD AND/OR TWO ROD ROAD.
SNOW REMOVED FROM THE SITE SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL GUIDELINES OR REGULATIONS.

GRADING AND DRAINAGE PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 INCH = 30 FT.

C-3

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

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

LAND SURVEYORS

CIVIL ENGINEERS

LEGEND

- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- EXISTING TREE LINE
- EXISTING DRAIN LINE
- 232 EXISTING CONTOUR LINE
- EXISTING CATCH BASIN
- PROPOSED TREE LINE
- PROPOSED DRAIN LINE
- 234 PROPOSED CONTOUR LINE
- S/F PROPOSED SILTATION FENCE
- S/S PROPOSED SILTATION SOCK
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- PROPOSED FLARED END SECTION (FES)
- PROPOSED TEMPORARY CATCH BASIN SILT SACK OR BLOCK INLET FILTERS
- PROPOSED TEMPORARY STABILIZED CONSTRUCTION EXIT
- PROPOSED TEMPORARY SEDIMENT LOGS

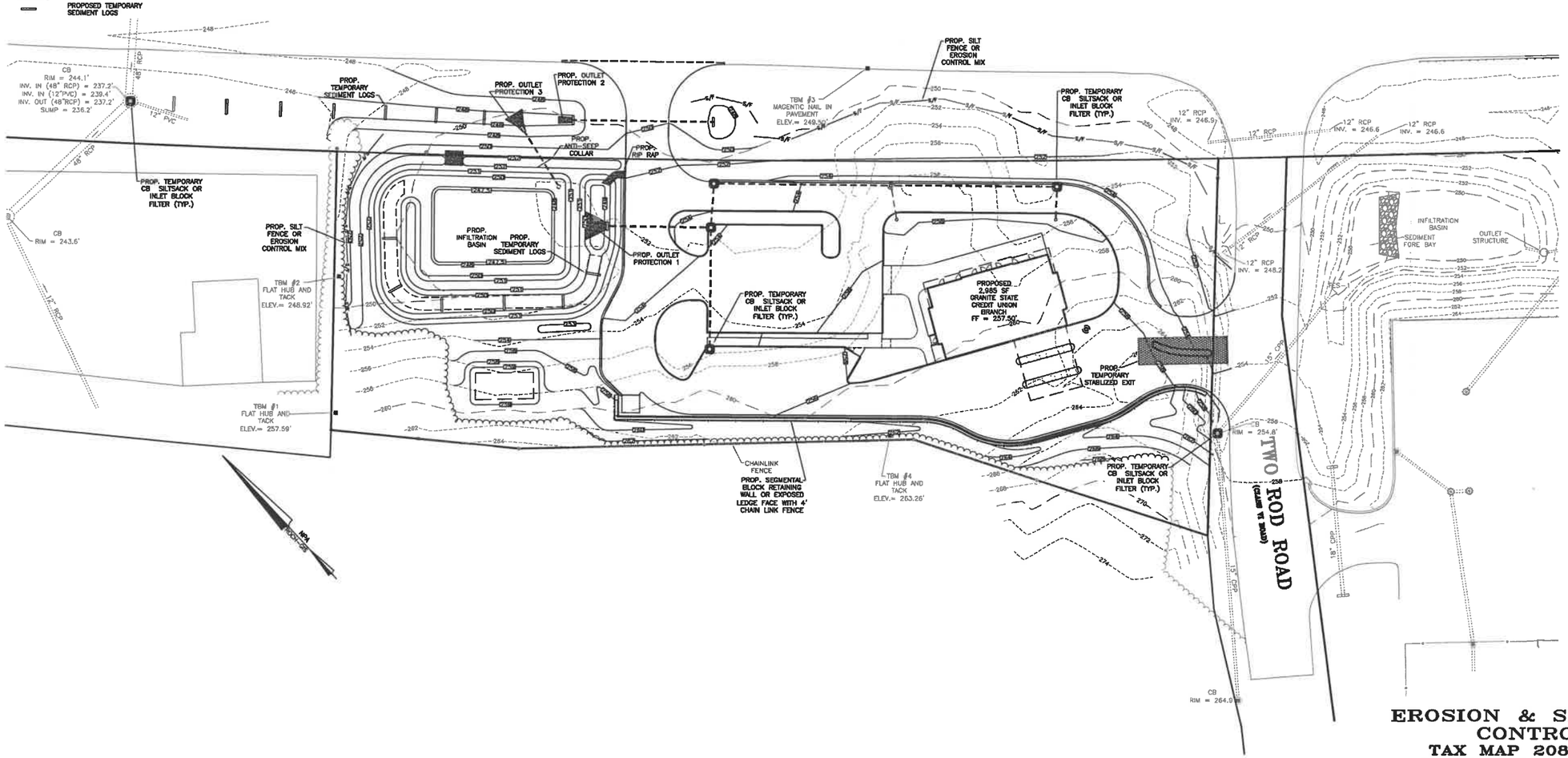
DIG SAFE — CALL TOLL FREE 1-888-344-7233 — UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

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

STATE OF NEW HAMPSHIRE — SCOTT A. LAWLER No. 10024 LICENSED PROFESSIONAL ENGINEER

REVISIONS:
5/12/2021 – REVISED PER TRC COMMENTS

FARMINGTON ROAD
NH ROUTE 11



EROSION & SEDIMENTATION CONTROL PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 INCH = 30 FT.

C-4

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

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

LAND SURVEYORS

CIVIL ENGINEERS

LEGEND

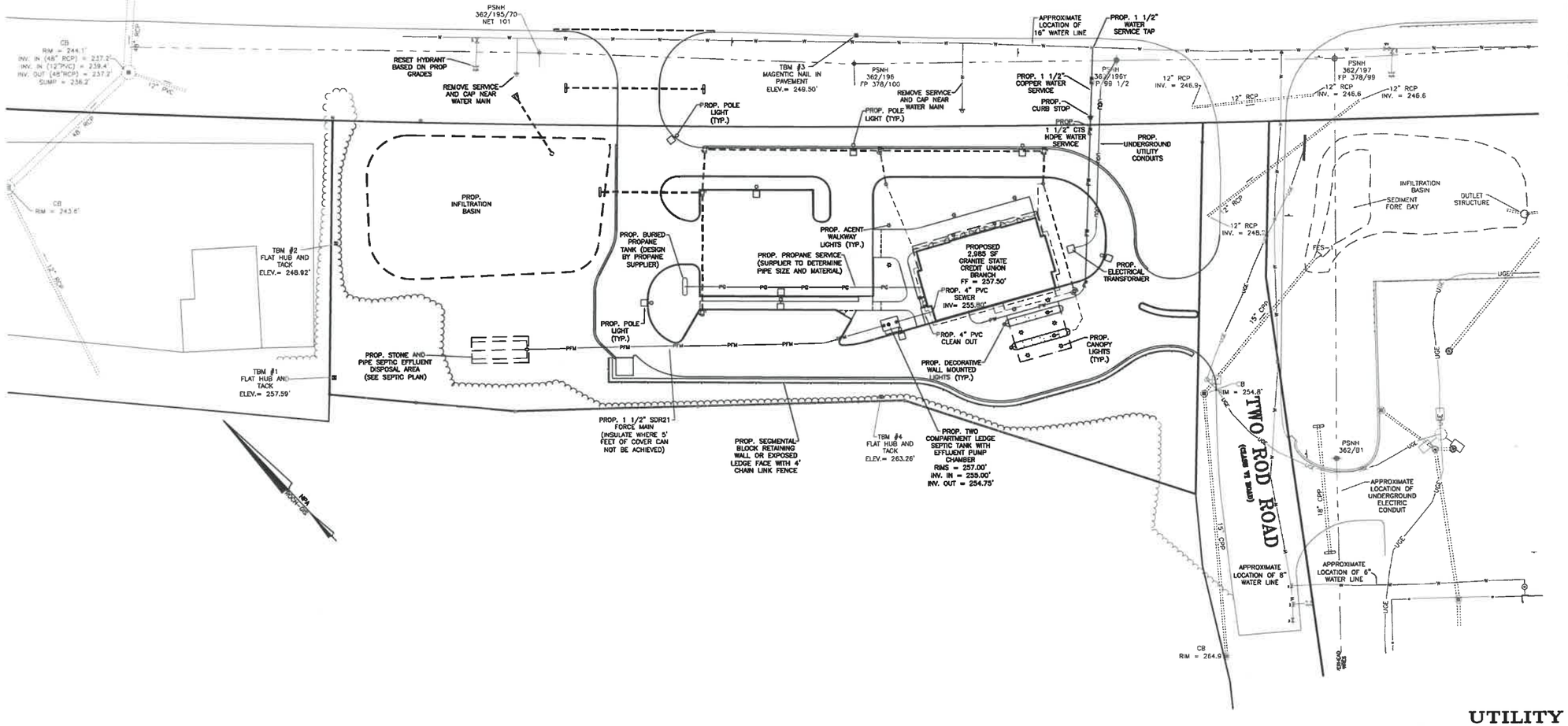
- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- EXISTING OVERHEAD WIRES
- W — EXISTING WATER MAIN
- EXISTING GRAVITY SEWER MAIN
- FM — EXISTING SEWER FORCE MAIN
- UGE — EXISTING UNDERGROUND ELECTRIC WIRES
- UGU — EXISTING UNDERGROUND UTILITY WIRES
- EXISTING GAS PIPE
- EXISTING DRAIN LINE
- EXISTING HYDRANT
- EXISTING WATER GATE OR SHUT-OFF VALVE
- EXISTING UTILITY POLE
- EXISTING SEWER MANHOLE
- EXISTING CATCH BASIN
- EXISTING LIGHT POLES
- PROPOSED DRAIN LINE
- PW — PROPOSED WATER SERVICE
- S — PROPOSED SEWER LINE
- PFM — PROPOSED SEWER FORCE MAIN PIPE HDPE SDR11 IN THE PLAN SET.
- PG — PROPOSED PROPANE GAS LINE
- UGU — PROPOSED UNDERGROUND UTILITY WIRES
- UGE — PROPOSED UNDERGROUND ELECTRIC WIRES
- PROPOSED HYDRANT
- PROPOSED WATER VALVE
- PROPOSED WATER SHUT-OFF VALVE
- PROPOSED SEWER SHUT-OFF VALVE
- PROPOSED UTILITY POLE
- PROPOSED SEWER MANHOLE
- PROPOSED DRAIN MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED LIGHT POLES
- PROPOSED BUILDING LIGHT FIXTURES

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

STATE OF NEW HAMPSHIRE
SCOTT A. LAWLER No. 10029
LICENSED PROFESSIONAL ENGINEER

REVISIONS:
5/12/2021 - REVISED PER TRG COMMENTS

FARMINGTON ROAD
NH ROUTE 11



PROPOSED DRAINAGE TABLE

PROP. DMH 1
RIM = 256.50'
INV. IN (3") = 253.10'
INV. IN (4") = 253.00'
INV. OUT (8") = 252.80'

PROP. AD 1
RIM = 254.00'
INV. IN (4") = 252.25'
INV. IN (8") = 252.00'
INV. OUT (8") = 252.00'

PROP. AD 2
RIM = 254.50'
INV. IN (8") = 253.00'
INV. OUT (8") = 252.50'

PROP. DMH 2
RIM = 254.75'
INV. IN (8") = 252.00'
INV. IN (12") = 251.10'
INV. OUT (12") = 251.00'

PROP. CB 1
RIM = 254.20'
INV. IN (8") = 251.75'
INV. OUT (12") = 251.55'
SUM = 248.55'

PROP. CB 2
RIM = 253.25'
INV. IN (12") = 250.50'
INV. OUT (12") = 250.40'
SUMP = 247.30'

PROP. CB 3
RIM = 255.20'
INV. OUT (12") = 251.40'
SUMP = 248.40'

PROP CB 4
RIM = 253.80'
INV. IN (12") = 250.80'
INV. IN (12") = 250.15'
INV. OUT (15") = 250.00'
SUMP = 246.00'*

PROP. OUTLET STRUCTURE
RIM 250.50'
INV. OUT (12") = 247.00'
SUMP = 244.00'

* WITH ELIMINATOR OIL AND DEBRIS TRAP

PROP. PIPE 1
3" SDR35 PVC
L = 28'
S = 0.5%

PROP. PIPE 2
4" SDR35 PVC
L = 50'
S = 0.5%

PROP. PIPE 3
6" CPP
L = 69'
S = 1.0%

PROP. PIPE 4
6" CPP
L = 18'
S = 1.4%

PROP. PIPE 5
12" CPP
L = 90'
S = 0.5%

PROP. PIPE 6
4" CPP
L = 35'
S = 6.0%

PROP. PIPE 7
6" CPP
L = 20'
S = 2.5%

PROP. PIPE 8
12" CPP
L = 93'
S = 0.5%

PROP. PIPE 9
12" CPP
L = 21'
S = 1.1%

PROP. PIPE 10
12" CPP
L = 64'
S = 1.0%

PROP. PIPE 11
15" RCP
L = 56'
S = 0.9%

PROP. PIPE 12
12" CPP
L = 80'
S = 0.5%

PROP. PIPE 13
12" CPP
L = 35'
S = 0.6%
WITH ANTI-SEEP COLLAR

NOTES:
1) CONSTRUCTION WILL CONFORM TO THE FOLLOWING UTILITIES STANDARDS AND SPECIFICATION:
   A) SANITARY SEWER DISPOSAL - CITY OF ROCHESTER
   B) ELECTRIC DISTRIBUTION - EVERSOURCE
   C) TELEPHONE - FAIRPOINT
   D) CABLE - CONSOLIDATED COMMUNICATIONS
   E) WATER - CITY OF ROCHESTER
2) ALL PROPOSED ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND.

DIG SAFE
1-888-344-7233 CALL TOLL FREE
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

UTILITY PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 INCH = 30 FT.

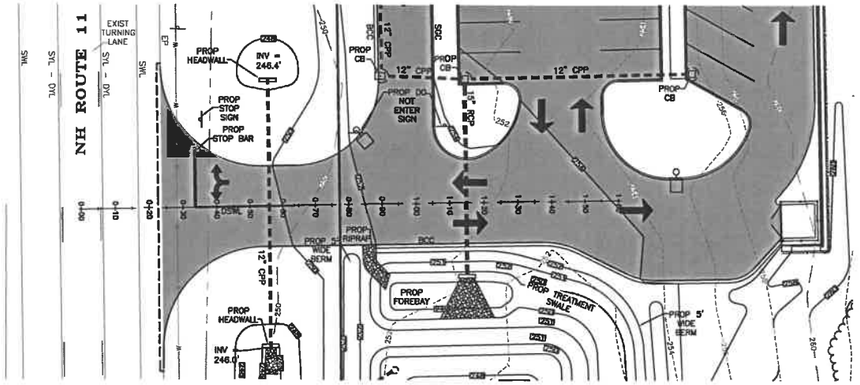
C-5

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

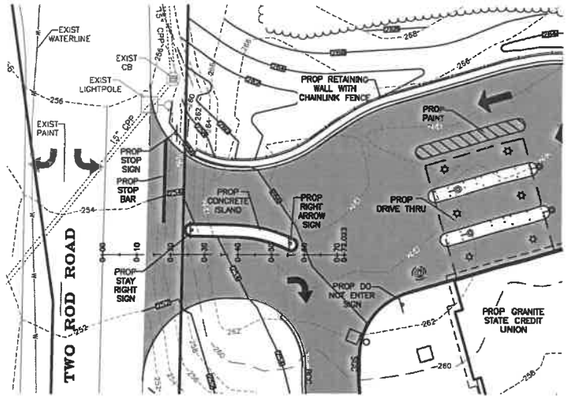
31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

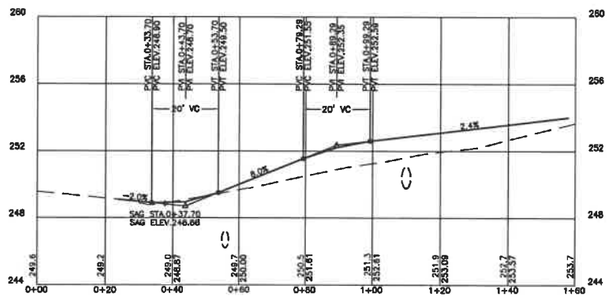
2 Continental Blvd., Rochester, N.H. 603-335-3948



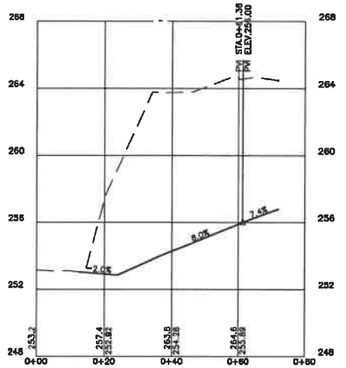
ROUTE 11 DRIVEWAY PLAN VIEW
1" = 20'



TWO ROD ROAD DRIVEWAY PLAN VIEW
1" = 20'



ROUTE 11 DRIVEWAY PROFILE
1" = 20' (HORZ.) & 1" = 4' (VERT.)

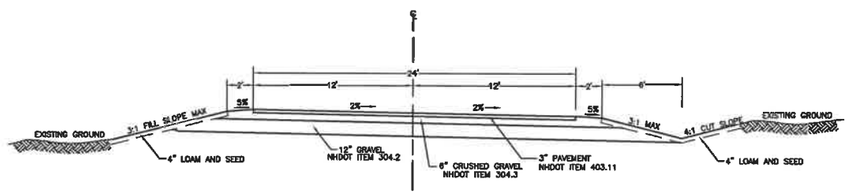


TWO ROD ROAD DRIVEWAY PROFILE
1" = 20' (HORZ.) & 1" = 4' (VERT.)

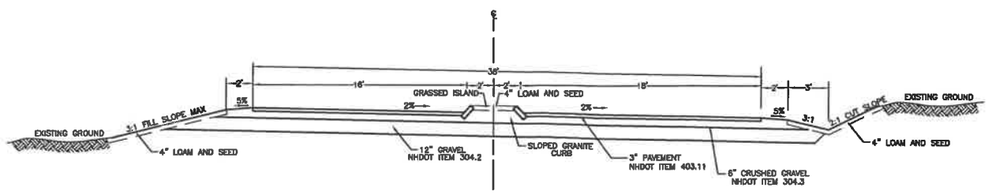
ITEM NO.	SIGN SIZE HEIGHT	SIGN SIZE WIDTH	TEXT	NO. SIGNS REQ'D
R1-1	30"	30"	STOP	2
R7-8a	18"	12"	RESERVED PARKING	2
R7-8b	6"	12"	VAN ACCESSIBLE	1
R5-1	30"	30"	DO NOT ENTER	4
R6-1	12"	36"	ONE WAY	1
R4-7b	30"	24"	KEEP RIGHT	1
R3-5r	30	24	ONLY	1

NOTES:
1. ALL SIGNS SHALL BE PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

SIGN SCHEDULE
NOT TO SCALE



ROUTE 11 DRIVEWAY CROSS-SECTION
1" = 5'



TWO ROD ROAD DRIVEWAY CROSS-SECTION
1" = 5'

1. CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH NHDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"
2. THE ENTIRE AREA OF THE DRIVEWAY AND IT'S ADJOINING SLOPED AREAS SHALL BE CLEARED OF ALL STUMPS, BRUSH, ROOTS, ROCKS, BOULDERS, AND LIKE MATERIALS AND ALSO OF ALL TREES NOT INTENDED FOR PRESERVATION.
3. CONTRACTOR IS TO CONTACT CITY ENGINEER, TO REVIEW CONDITION OF THE ROUGHED IN ROAD, 72 HOURS PRIOR TO THE INSTALLATION PAVEMENT.
4. ALL BACK FILL IN TRENCHES AND FILL FOR THE ROAD BEDS SHALL BE COMPACTED TO 95% OPTIMUM DENSITY.
5. AGGREGATE #4 (NHDOT ITEM 703) SHALL BE WRAPPED IN A SUPPORT MEMBRANE (FILTER FABRIC).

STATE OF NEW HAMPSHIRE
SCOTT A. LAWLER
No. 10026
LICENSED PROFESSIONAL ENGINEER

DRIVEWAY PLAN, PROFILES & TYPICAL CROSS SECTIONS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
GRANITE STATE CREDIT UNION
APRIL 2021

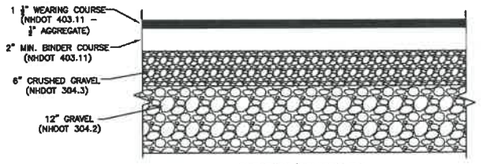
C-6

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

31 MOONEY STREET, ALTON, NH 603-875-3948
NORWAY PLAINS ASSOCIATES, INC.
2 CONTINENTAL BLVD., ROCHESTER, NH 603-335-3948

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

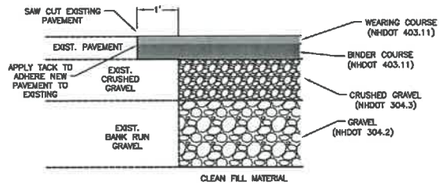
STATE OF NEW HAMPSHIRE — SCOTT A. LAMLER No. 10024 — LICENSED PROFESSIONAL ENGINEER



PARKING LOT CROSS-SECTIONS

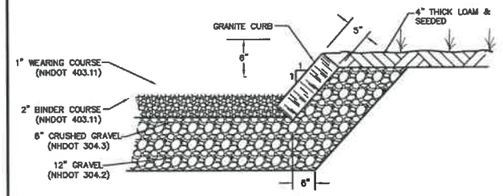
NOT TO SCALE

PAVEMENT NOTES:
1. PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.
2. PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
3. PLACE CRUSHED GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
4. PAVEMENT MUST BE INSTALLED IN TWO COURSES, A BINDER COURSE AND A WEARING COURSE.



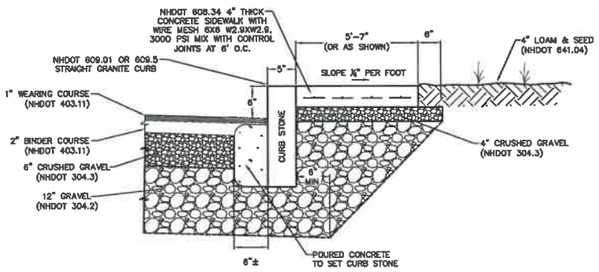
TYPICAL PAVEMENT MATCHING DETAIL

NOT TO SCALE



GRANITE SLOPE CURB DETAIL

NOT TO SCALE



CONCRETE SIDEWALK WITH GRANITE CURB DETAIL

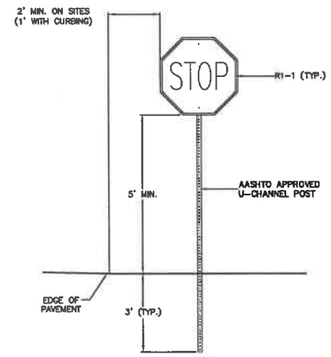
NOT TO SCALE

ITEM NO.	SIGN SIZE HEIGHT	SIGN SIZE WIDTH	TEXT	NO. SIGNS REQ'D
R1-1	30"	30"	STOP	2
R7-8a	18"	12"	RESERVED PARKING	2
R7-8b	6"	12"	VAN ACCESSIBLE	1
R5-1	30"	30"	DO NOT ENTER	4
R6-1	12"	36"	ONE WAY	1
R4-7b	30"	24"	KEEP RIGHT	1
R3-5r	30	24	ONLY	1

NOTES:
1. ALL SIGNS SHALL BE PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

SIGN SCHEDULE

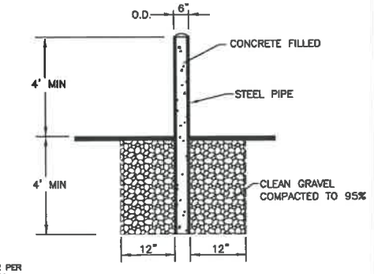
NOT TO SCALE



TYPICAL TRAFFIC SIGN

NOT TO SCALE

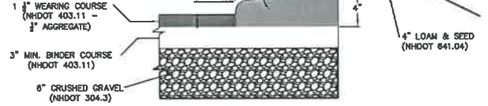
NOTES:
1. SIGN POST SHALL BE AASHTO APPROVED U-CHANNEL OR OTHER PER ASSHTO "SPECIFICATIONS FOR STRUCTURAL SUPPORT OF HIGHWAY SIGNS, LUMINARIES AND SIGNALS", LATEST EDITION.
2. SIGNS SHALL BE MOUNTED 5 FT FROM GROUND TO BOTTOM EDGE WHERE PARKING AND PARKING LOT MOVEMENTS TAKE PLACE.
3. SIGNS SHALL BE PLACED SO THAT NEAREST EDGE IS 2 FT. FROM EDGE OF PAVEMENT UNLESS CURBED.



STEEL BOLLARD DETAIL

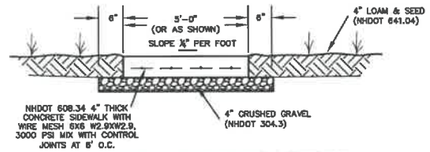
NOT TO SCALE

BOLLARD NOTES:
1. BOLLARDS SHALL BE COVERED WITH DURABLE PLASTIC OR PVC COVER, WHITE IN COLOR.



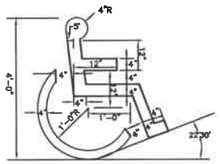
BITUMINOUS CAPE COD BERM DETAIL

NOT TO SCALE

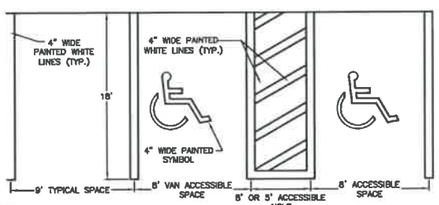


CONCRETE SIDEWALK DETAIL

NOT TO SCALE



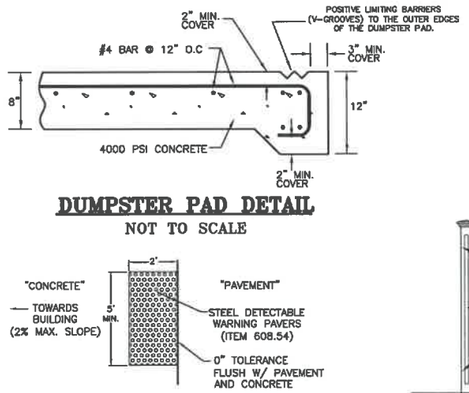
ACCESSIBLE SYMBOL



NOTE:
1. HANDICAP GRAPHIC SYMBOL (PAINTED WHITE) TO BE CENTERED IN SPACE. SYMBOL TO BE PAINTED ON ASPHALT AS PER DETAIL.

STALL STRIPING DETAIL

NOT TO SCALE



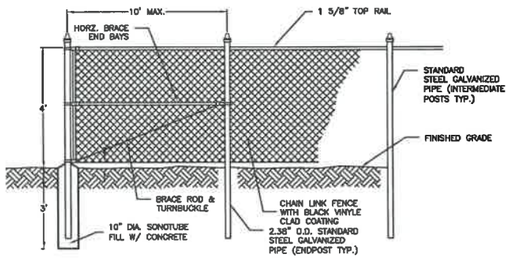
DUMPSTER PAD DETAIL

NOT TO SCALE

DETECTABLE WARNING PAVER DETAIL

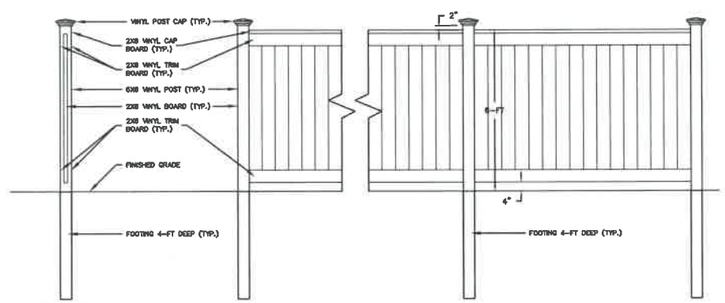
NOT TO SCALE

DETECTABLE WARNING PAVER NOTES:
1. THE MAXIMUM CROSS OF CONCRETE WALKWAY SLOPE IS 2%. THE SLOPE OF THE LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION.
2. TRANSITIONS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
3. DETECTABLE WARNING PAVERS (ITEM 608.54) SHALL BE USED ON CONCRETE RAMPS AS SHOWN. EACH TACTICAL WARNING STRIP PANEL SHALL A TRUNCATED DOMED SURFACE AT LEAST 2'-0" IN WIDTH, MEASURED FROM THE BACK OF THE CURB TIP DOWN, AND 5'-0" IN LENGTH MEASURE PERPENDICULAR T THE DIRECTION OF PEDESTRIAN TRAVEL.
4. ALL DETECTABLE WARNING PAVERS SHALL BE CAST IN PLACE ARMOR-TILE TACTILE SYSTEM, YELLOW IN COLOR, OR APPROVED EQUAL.



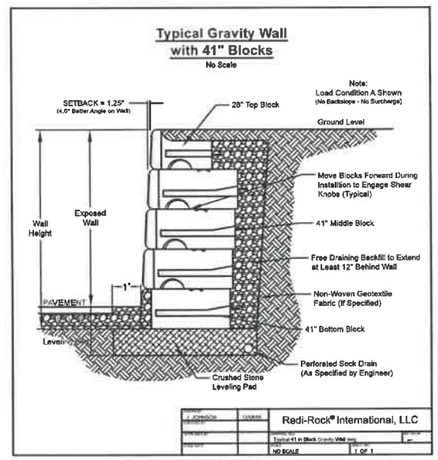
TYPICAL CHAINLINK FENCE

NOT TO SCALE



TYPICAL SOLID VINYL FENCE DUMPSTER ENCLOSURE

SCALE: 1/2"=1'



TYPICAL BLOCK RETAINING WALL DETAIL

NOT TO SCALE

NOTES:
1. DESIGN OF RETAINING WALLS TO BE PROVIDED BY MANUFACTURE AND INSTALLED PER THE MANUFACTURE'S REQUIREMENTS.
2. SHOP DRAWINGS SHALL BE SUBMITTED PRIOR TO ORDERING AND APPROVED BY NORWAY PLAINS ASSOCIATES, INC.
3. CHAINLINK FENCE SHALL BE INSTALLED ON TOP OF WALL WHERE THE VERTICAL DROP IS GREATER THAN 2 FEET OR AS REQUIRED BY CODES.

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

CONSTRUCTION DETAILS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:

GRANITE STATE CREDIT UNION

APRIL 2021

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

NORWAY PLAINS ASSOCIATES, INC.

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

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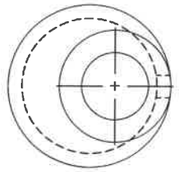
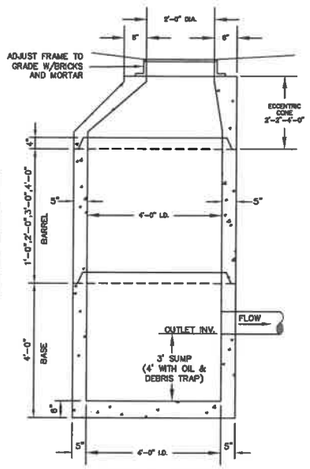
STATE OF NEW HAMPSHIRE — SCOTT A. LAWLER No. 10024 LICENSED PROFESSIONAL ENGINEER



PLAN VIEW



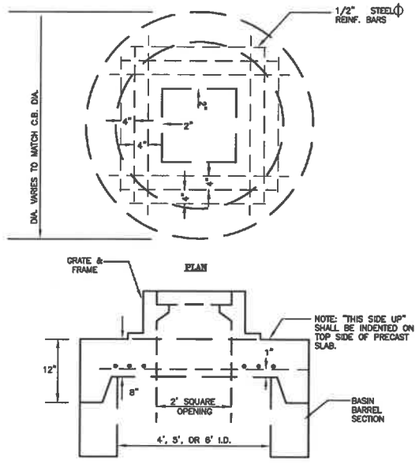
SECTION VIEW

DRAIN LINE DIAMETER	SUM OF DRAIN LINE DIAMETER	CATCH BASIN DIAMETER
15" TO 18"	LESS THAN 54"	4'
21" TO 27"	LESS THAN 72"	5'
30" TO 33"	LESS THAN 90"	6'
36" & LARGER	GREATER THAN 90"	REFER TO THE STANDARD

NOTES:
1. CONCRETE: 4,000 PSI AFTER 28 DAYS.
2. REINFORCING: SHALL BE PROVIDED FOR H-20 LOADING.
3. SHIPLAP JOINTS SEALED WITH 1 STRIP OF BUTYL RUBBER SEALANT.
4. PIPE OPENINGS CAST IN AS REQUIRED.
5. RISER HEIGHT VARIES 1', 2', 3' OR 4' TO REACH DESIRED DEPTH.
6. PIPE CONNECTIONS SHALL BE MORTARED.
7. PRECAST SECTIONS SHALL CONFORM TO ASTM C-478.
8. SEE SLAB TOP DETAIL FOR STRUCTURES REQUIRING SLAB TOPS, I.E. DOUBLE GRATE AND FRAME STRUCTURES.

PRE-CAST REINFORCED CATCH BASIN

NOT TO SCALE

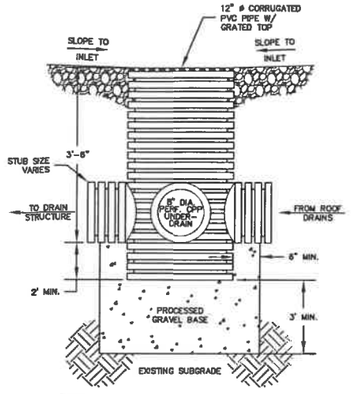


ELEVATION

NOTE:
1. SLAB TO BE PLACED IN LIEU OF TAPERED SECTION WHERE PIPE WOULD OTHERWISE ENTER INTO TAPERED SECTION OF THE STRUCTURE AND WHERE PERMITTED.
2. SLAB TOP MAY BE CASTED WITH MINIMUM OR NO INTERLOCKING CHANNEL. HOWEVER, THE CONTRACTOR MUST ENSURE THE SLAB TOP IS FIRMLY ATTACHED TO THE STRUCTURE.

REINFORCED CONCRETE SLAB COVER

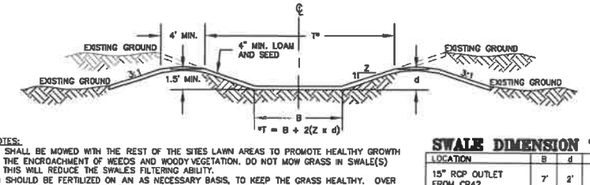
NOT TO SCALE



NOTES:
1. AREA DRAINS TO BE ADS PIPE TEE & RISER SECTIONS WITH GRATES, OR EQUAL.
2. AREA DRAINS SHALL BE SET ON 3 FT OF PROCESSED GRAVEL BASE, COMPACTED TO 95% PROCTOR DENSITY.
3. USE EITHER CLEAN GRANULAR FILL OR NHDOT CRUSHED GRAVEL FOR THE PROCESSED GRAVEL BASE (SEE C6).

AREA DRAIN DETAIL

NOT TO SCALE



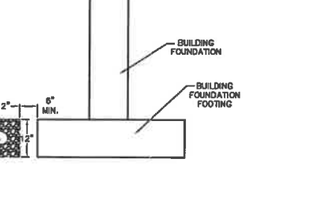
MAINTENANCE NOTES:
1. THE SWALE(S) SHALL BE MOWED WITH THE REST OF THE SITES LAWN AREAS TO PROMOTE HEALTHY GROWTH AND PREVENT THE ENCROACHMENT OF WEEDS AND WOODY VEGETATION. DO NOT MOW GRASS IN SWALE(S) TOO SHORT. THIS WILL REDUCE THE SWALES FILTERING ABILITY.
2. THE SWALE(S) SHOULD BE FERTILIZED ON AN AS NECESSARY BASIS, TO KEEP THE GRASS HEALTHY. OVER FERTILIZATION COULD RESULT IN THE SWALE(S) BECOMING A SOURCE OF POLLUTION TO THE SURROUNDING WETLAND AREAS.
3. THE SWALE(S) SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM. RILLS AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND RE-VEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION.

SWALE DIMENSION TABLE

LOCATION	B	d	Z	T
15" RCP OUTLET FROM CB42	7'	2'	3	19'

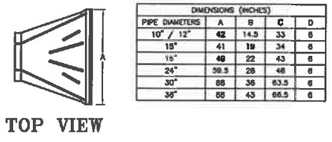
VEGETATED TREATMENT SWALE DETAIL

NOT TO SCALE



FOUNDATION DRAIN DETAIL

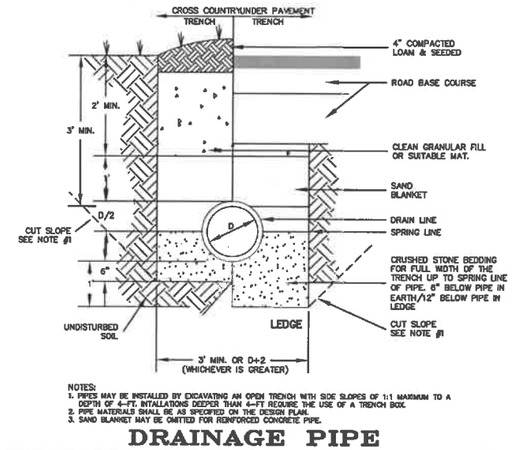
NOT TO SCALE



DIMENSIONS (INCHES)				
PIPE DIAMETERS	A	B	C	D
10" / 12"	42	14.5	33	6
15"	41	19	34	6
18"	48	22	43	6
24"	39.5	28	46	6
30"	66	36	63.5	6
36"	66	43	66.5	6

FLAIRED END SECTION DETAIL

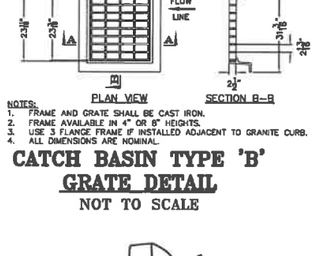
NOT TO SCALE



NOTES:
1. PIPES MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4-FT. INSTALLATIONS DEEPER THAN 4-FT REQUIRE THE USE OF A TRENCH BOX.
2. PIPE MATERIALS SHALL BE AS SPECIFIED ON THE DESIGN PLAN.
3. SAND BLANKET MAY BE OMITTED FOR REINFORCED CONCRETE PIPE.

DRAINAGE PIPE TRENCH INSTALLATION DETAIL

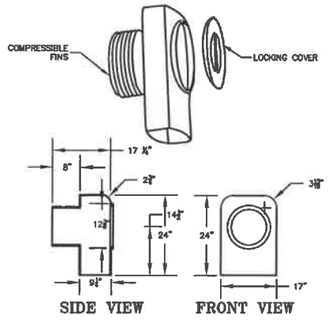
NOT TO SCALE



NOTES:
1. FRAME AND GRATE SHALL BE CAST IRON.
2. FRAME AVAILABLE IN 4" OR 8" HEIGHTS.
3. USE 3 FLANGE FRAME IF INSTALLED ADJACENT TO GRANITE CURB.
4. ALL DIMENSIONS ARE NOMINAL.

CATCH BASIN TYPE 'B' GRATE DETAIL

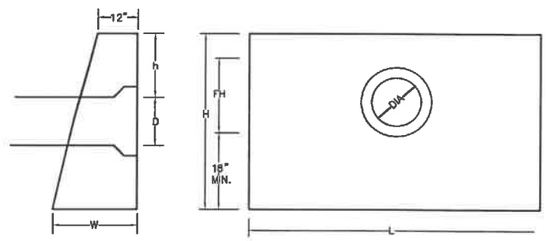
NOT TO SCALE



ELIMINATOR CATCH BASIN OIL AND DEBRIS TRAP DETAIL

NOT TO SCALE

NOTES:
1. HOOD SHALL BE "THE ELIMINATOR" OIL & FLOATING DEBRIS TRAP AS MANUFACTURED BY GROUND WATER RESCUE, INC., QUINCY, MA., TEL. 617-773-1128 ON THE WEB @ WWW.KLEANSTREAM.COM
2. AVAILABLE IN 8", 10", 12", 15" AND 18" DIAMETERS.



DIA. D	HEADWALL LENGHT L	HEADWALL HIGHT H	FILL HIGHT FH	PIPE COVER h	HEADWALL BTM HEIGHT W
12"	4'3"	3'9"	1'1"	1'3"	2'
15"	6'	4'3"	1'7"	1'6"	2'1"
18"	7'	4'6"	1'10"	1'6"	2'2"
24"	9'	5'	2'4"	1'6"	2'3"
30"	11'	5'6"	2'10"	1'6"	2'5"
36"	13'	6'	3'4"	1'6"	2'6"
42"	15'9"	6'9"	4'1"	1'9"	2'9"
48"	17'9"	7'3"	4'7"	1'9"	2'10"

PRE-CAST HEADWALL

DRAINAGE DETAILS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
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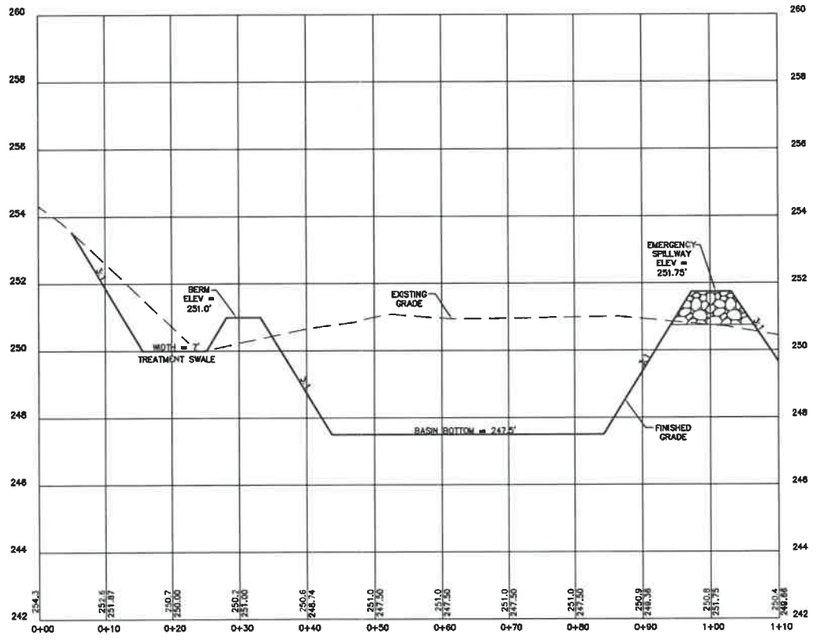
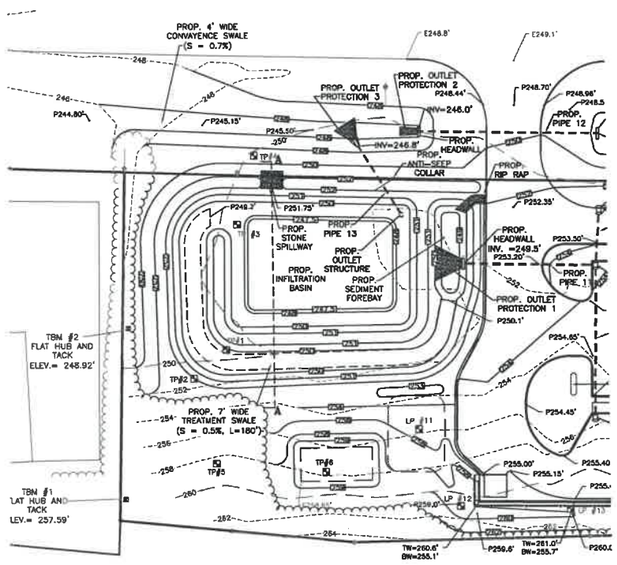


INFILTRATION BASIN CROSS SECTION A-A

1" = 10' (HORZ.) & 1" = 2' (VERT.)



INFILTRATION BASIN

1" = 30'

INFILTRATION BASIN

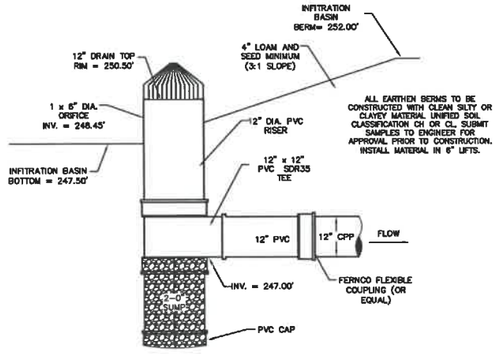
SPECIFICATIONS:
1. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE INFILTRATION BASIN.
2. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION BASIN.
3. AFTER THE BASIN IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
4. VEGETATION SHALL BE ESTABLISHED IMMEDIATELY AFTER FINIAL GRADING IS COMPLETED.
5. CONSTRUCT THE INFILTRATION BASIN TO THE GRADES DEPICTED ON THE PLAN AND CROSS-SECTION.
6. LOAM AND SEED ONLY THE SLOPES OF THE INFILTRATION BASIN AS PRESCRIBED IN THE "PERMANENT VEGETATION" NOTES FOUND ON SHEET C-11. SEED MIXTURE = A
7. DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

MAINTENANCE REQUIREMENTS:
1. INSPECT PRETREATMENT MEASURES (I.E. SEDIMENT FOREBAY(S), HOODED CATCH BASINS, ETC.) AT LEAST TWICE A YEAR AND AFTER EVERY STORM GREATER THAN 2.5 INCHES OF RAIN OVER A 24-HOUR PERIOD.
2. INSPECT INFILTRATION SURFACE BI-ANNUALLY. ONCE IN THE SPRING PRIOR TO MAY 15 AND ONCE IN THE FALL PRIOR TO OCTOBER 15.
3. INSPECT INFILTRATION SURFACE AFTER ANY RAINFALL EVENT OF 2.5-INCHES OR GREATER IN A 24-HOUR PERIOD.
4. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT BASED ON INSPECTION. REPAIR AREA OF REMOVAL AS NECESSARY TO RESTORE INFILTRATION CAPACITY.
5. PERFORM MAINTENANCE AND REHABILITATION BASED ON INSPECTIONS.
6. REMOVE DEBRIS (IF ANY) FROM INFILTRATION BASIN INLET BASED ON INSPECTION.
7. CONDUCT PERIODIC MOWING OF THE INFILTRATION BASIN SLOPES AND EMBANKMENTS (MINIMUM TWICE A YEAR) TO ELIMINATE WOODY GROWTH FROM THE EMBANKMENTS AND BOTTOM. MOWING THE INFILTRATION BASIN EMBANKMENTS WHEN MOWING THE REST OF THE SITE IS RECOMMENDED.
8. IF THE INFILTRATION SYSTEM DOES NOT DRAIN WITHIN 72-HOURS FOLLOWING A RAINFALL EVENT, THEN A QUALIFIED PROFESSIONAL (I.E. PROFESSIONAL ENGINEER, CERTIFIED SOILS SCIENTIST, ETC.) SHALL ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE INFILTRATION FUNCTION, INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE INFILTRATION SURFACE.

SEDIMENT FOREBAY

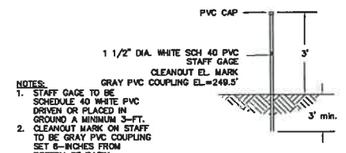
SPECIFICATIONS:
1. CONSTRUCT THE SEDIMENT FOREBAY TO THE GRADES DEPICTED ON THE PLAN AND CROSS-SECTION.
2. LOAM AND SEED THE SLOPES AND BOTTOM OF THE SEDIMENT FOREBAY AS PRESCRIBED IN THE "PERMANENT VEGETATION" NOTES FOUND ON SHEET C-10. SEED MIXTURE = A

MAINTENANCE REQUIREMENTS:
1. INSPECT SEDIMENT FOREBAY BI-ANNUALLY. ONCE IN THE SPRING PRIOR TO MAY 15 AND ONCE IN THE FALL PRIOR TO OCTOBER 15.
2. CONDUCT PERIODIC MOWING OF THE SEDIMENT FOREBAY SLOPES AND EMBANKMENTS (MINIMUM TWICE A YEAR) TO ELIMINATE WOODY GROWTH FROM THE EMBANKMENTS AND BOTTOM. MOWING THE SEDIMENT FOREBAY EMBANKMENTS WHEN MOWING THE REST OF THE SITE IS RECOMMENDED.
3. REMOVE DEBRIS FROM THE OUTLET STRUCTURE OF THE SEDIMENT FOREBAY (I.E. STONE CHECK DAM) AT LEAST ONCE ANNUALLY.
4. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT BASED ON INSPECTION. WHEN SEDIMENT HAS REACHED THE RED MARK ON THE SEDIMENT STAFF GAGE INSTALLED IN THE FOREBAY, REMOVE SEDIMENT AND DISPOSE OF IT OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. ELEVATION OF RED CLEANOUT MARK ON STAFF GAUGE = 249.5'



INFILTRATION BASIN #1 OUTLET STANDPIPE DETAIL

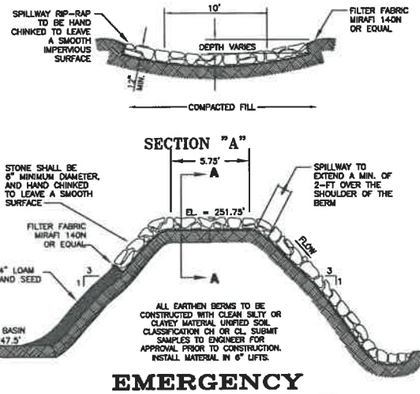
NOT TO SCALE



NOTES:
1. STAFF GAGE TO BE SCHEDULE 40 WHITE PVC DRIVEN OR PLACED IN GROUND A MINIMUM 3-FT.
2. CLEANOUT MARK ON STAFF TO BE GRAY PVC COUPLING SET 6-INCHES FROM BOTTOM OF BASIN.

SEDIMENT FOREBAY GAUGE DETAIL

NOT TO SCALE



EMERGENCY SPILLWAY DETAIL

NOT TO SCALE

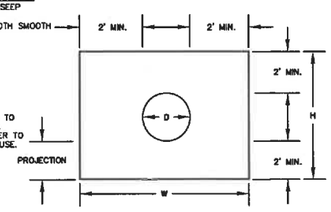
INSTALLATION NOTES:
1. ANTI-SEEP COLLARS SHALL BE MADE PLASTIC IF BEING USED WITH PLASTIC PIPE. ANTI-SEEP COLLARS SHALL BE GALVINIZED SHEET STEEL IF BEING USED WITH CORRUGATED METAL PIPE AND SHALL BE POURED CONCRETE IF BEING USED WITH REINFORCED CONCRETE PIPE.
2. ANTI-SEEP COLLAR SHALL BE WATERPROOF AND HAVE A WATERPROOF CONNECTION TO THE OUTLET PIPE.
3. A NUMBER OF ANTI-SEEP COLLARS SHALL BE PLACED ALONG THE PIPE IN A SPACING THAT INCREASES THE PIPE LENGTH BY 15%

SOURCES FOR PLASTIC ANTI-SEEP COLLARS FOR USE WITH PLASTIC PIPE:
1. THE FOLLOWING ARE A FEW MANFACTURER'S OF PLASTIC ANTI-SEEP COLLARS.
   COLLARS FROM THESE MANUFACTURER'S MAY BE USED WITH BOTH SMOOTH WALLED AND CORRUGATED OUTSIDE WALLED PIPE.

McRIP MANUFACTURING
16 MESERVE ROAD
DURHAM, NH 03824
PHONE: (603) 868-5176
FAX: (603) 868-2074
E-MAIL: Info@trenchdam.com

SCHIEB DRAINAGE PRODUCTS
203 SOUTH MONROE STREET
OREGON, MO 64473
PHONE: (660)-446-2343

2. IT IS ALSO SUGGESTED THAT LOCAL SUPPLIERS BE CONTACTED TO ENQUIRE ABOUT SUITABLE ANTI-SEEP COLLAR PRODUCTS. IF A POSSIBLE ALTERNATIVE IS FOUND, CONTACT THE DESIGN ENGINEER TO ENSURE ITS APPROPRIATENESS AND TO GET APPROVAL FOR ITS USE.



COLLAR DIMENSION TABLE

D	W	H
12	10'	6'
18	10.25'	6'
24	12'	7.5'
30	12'	7.5'

ANTI-SEEP COLLAR DETAIL

NOT TO SCALE

INFILTRATION BASIN DETAILS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

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

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STATE OF NEW HAMPSHIRE — SCOTT LAWLER No. 10024 — LICENSED PROFESSIONAL ENGINEER

NORTH AMERICAN GREEN
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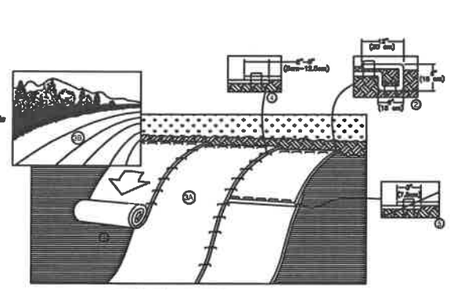


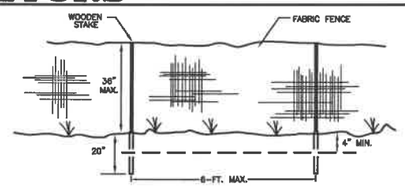
SLOPE INSTALLATION

MAINTENANCE REQUIREMENTS:
1. ALL BLANKET AND MATS SHALL BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEEDING 1/2 INCH IN A 24-HOUR PERIOD.
2. ANY FAILURE SHALL BE REPAIRED IMMEDIATELY. IF WASHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESEEDED, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED.

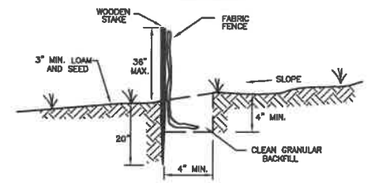
CONSTRUCTION SPECIFICATIONS:
1. MANUFACTURE'S INSTALLATION INSTRUCTIONS:
   A. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
      NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
   B. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
   C. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM , STAPLES/STAKES SHALL BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
   D. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
   E. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.
      NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.
2. SITE PREPARATION:
   A. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL.
   B. GRADE AND SHAPE AREA OF INSTALLATION.
   C. REMOVE ALL ROCKS, CLODS, TRASH, VEGETATIVE OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE DIRECT CONTACT WITH THE SOIL.
   D. PREPARE SEEDBED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
   E. INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.
3. SEEDING:
   A. SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATIONS. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEEDED.
   B. WHEN SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO FILLING THE MAT WITH SOIL.

TEMPORARY EROSION CONTROL BLANKET DETAIL

NOT TO SCALE



PROFILE



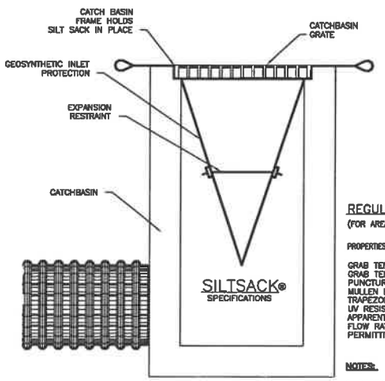
CROSS-SECTION

MAINTENANCE REQUIREMENTS:
1. FENCES SHALL BE INSPECTED AND MAINTAINED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALLS.
2. SEDIMENT DEPOSITION SHALL BE REMOVED, AT A MINIMUM, WHEN DEPOSITION ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FENCE, AND MOVED TO AN APPROPRIATE LOCATION SO THE SEDIMENT IS NOT READILY TRANSPORTED BACK TOWARD THE SILT FENCE.
3. SILT FENCES SHALL BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES OF THE BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.
4. SHALL THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE PREPARED AND SEEDED.
6. IF THERE IS EVIDENCE OF END FLOW ON PROPERLY INSTALLED BARRIERS, EXTEND BARRIERS UPHILL OR CONSIDER REPLACING THEM WITH OTHER MEASURES, SUCH AS TEMPORARY DIVERSIONS AND SEDIMENT TRAPS.
7. SILT FENCES HAVE A USEFUL LIFE OF ONE SEASON. ON LONGER CONSTRUCTION PROJECTS, SILT FENCE SHALL BE REPAIRED PERIODICALLY AS REQUIRED TO MAINTAIN EFFECTIVENESS.

CONSTRUCTION SPECIFICATIONS:
1. FENCES 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 FENCE. SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.
2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA ABOVE THE FENCE SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FENCE;
3. THE MAXIMUM LENGTH OF SLOPE ABOVE THE FENCE SHALL BE 100 FEET;
4. THE MAXIMUM SLOPE ABOVE THE FENCE SHALL BE 2:1;
5. FENCES SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE, AND
   A. THE ENDS OF THE FENCE SHALL BE FLARED UPSLOPE;
   B. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 4 INCHES IN DEPTH AND INCHES IN WIDTH IN A TRENCH EXCAVATED INTO THE GROUND, OR IF SITE CONDITIONS INCLUDE FROZEN GROUND, LEDGE, OR THE PRESENCE OF HEAVY ROOTS, THE BASE OF THE FABRIC SHALL BE EMBEDDED WITH A MINIMUM THICKNESS OF 8 INCHES OF 3/4-INCH STONE;
   C. THE SOIL SHALL BE COMPACTED OVER THE EMBEDDED FABRIC;
   D. SUPPORT POSTS SHALL BE SIZED AND ANCHORED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WITH MAXIMUM POST SPACING OF 6 FEET;
   E. ADJOINING SECTIONS OF THE FENCE SHALL BE OVERLAPPED BY A MINIMUM OF 6 INCHES (24 INCHES IS PREFERRED), FOLDED AND STAPLED TO A SUPPORT POST. IF METAL POSTS ARE USED, FABRIC SHALL BE WIRE-TIED DIRECTLY TO THE POSTS WITH THREE DIAGONAL TIES.
6. SILT FENCING SHALL NOT BE STAPLED OR NAILED TO TREES.
7. THE FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER.
8. THE FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES FAHRENHEIT TO 120 DEGREES FAHRENHEIT.
9. POSTS FOR SILT FENCES SHALL BE EITHER 4-INCH DIAMETER WOOD OR 1.33 POUNDS PER LINEAR FOOT STEEL, WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE, PROJECTIONS FOR FASTENING WIRE TO THEM. POSTS SHALL BE PLACED ON THE DOWN SLOPE SIDE OF THE FABRIC.
10. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES AS HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
11. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
12. A MANUFACTURED SILT FENCE SYSTEM WITH INTEGRAL POSTS MAY BE USED.
13. POST SPACING SHALL NOT EXCEED 8 FEET.
14. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UP GRADIENT FROM THE BARRIER.
15. THE TOE OF STANDARD STRENGTH OF FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE POST, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
16. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
17. SILT FENCE MAY BE INSTALLED BY "SLICING" USING MECHANICAL EQUIPMENT SPECIFICALLY DESIGNED FOR THIS PROCEDURE. THE SLICING METHOD USES AN IMPLEMENT TOWED BEHIND A TRACTOR TO "PLOW" OR SLICE THE SILT FENCE MATERIAL INTO THE SOIL. THE SLICING METHOD MINIMALLY DISRUPTS THE SOIL UPWARD AND SLIGHTLY DISPLACES THE SOIL, MAINTAINING THE SOIL'S PROFILE AND CREATING AN OPTIMAL CONDITION FOR SUBSEQUENT MECHANICAL COMPACTION.
18. SILT FENCES SHALL BE INSTALLED WITH "SMILES" OR "J-HOOKS" TO REDUCE THE DRAINAGE AREA THAT ANY SEGMENT WILL IMPOUND.
19. THE ENDS OF THE FENCE SHALL BE TURNED UPHILL.
20. SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE M ALLOW SPACE FOR SHALLOW PONDING AND TO ALLOW FOR MAINTENANCE ACCESS WITHOUT DISTURBING THE SLOPE.
21. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

SILTATION CONTROL FENCE DETAIL

NOT TO SCALE



REGULAR FLOW SILTSACK®

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

NOTES:
1. GEOSYNTHETIC SEDIMENT FILTER TRAP SHALL BE "REGULAR FLOW SILTSACK®" OR APPROVED EQUAL. SPECIFICATIONS FOR SILTSACK® ARE DETAILED.
2. FILTER TRAPS SHALL BE INSPECTED AFTER EVERY RAIN EVENT OF 0.25" OR GREATER AND SEDIMENTS SHALL BE REMOVED FROM TRAP WHEN SEDIMENT HAS REACHED TWO THIRDS OF THE DEPTH OF THE TRAP, OR IF PONDING OF WATER AT SURFACE BEGINS TO OCCUR. DO NOT PUNCTURE FILTER TRAP TO MITIGATE PONDING.
3. INSTALL SILT SACKS IN CATCH BASIN UPON INSTALLATION OF STRUCTURE.

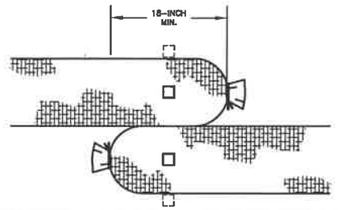
CATCH BASIN GEOSYNTHETIC SEDIMENT TRAP

NOT TO SCALE

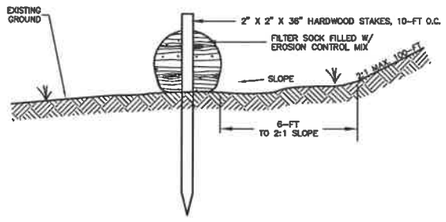
TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

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

SOURCES:
1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLE 4-1
2. MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)



FILTER SOCK CONNECTION PLAN VIEW



FILTER SOCK CROSS-SECTION

CONTINUOUS CONTAINED BERM (FILTER SOCK ALTERNATIVE):
1. AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTAINED BERM (OR "FILTER SOCK") CAN BE AN EFFECTIVE SEDIMENT BARRIER AS IT ADDS CONTAINMENT AND STABILITY TO A BERM OF EROSION CONTROL MIX.
2. IN THE EVENT THAT USE OF CONTINUOUS CONTAINED BERM IS DESIRED, THE PRODUCT SELECTED SHOULD BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER.
3. INSTALLATION OF CONTINUOUS CONTAINED BERMS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MANUFACTURER.

MAINTENANCE REQUIREMENTS:
1. FILTER SOCK MAINTENANCE SHALL FOLLOW THE SAME SCHEDULE AS EROSION CONTROL MIX BERMS.

CONSTRUCTION SPECIFICATIONS:
1. COMPOSITION OF THE EROSION CONTROL MIX SHALL EITHER BE THE SAME AS EROSION CONTROL MIX BERM MATERIAL OR AS SPECIFIED BY THE FILTER SOCK MANUFACTURER.
2. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.
3. IT MAY BE NECESSARY TO CUT TALL GRASSES AND WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES IN THE BARRIER THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.
4. FILTER SOCK DIAMETER (HEIGHT) SHALL BE PER THE MANUFACTURER RECOMMENDATION FOR THE AREA OF INSTALLATION.

CONTINUOUS CONTAINED BERM "FILTER SOCK" DETAIL

NOT TO SCALE

TEMPORARY VEGETATION:

SPECIFICATIONS:

SITE PREPARATION:
1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
3. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
4. ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR O THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

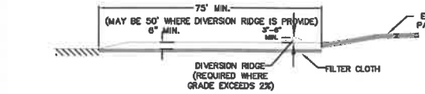
SEEDBED PREPARATION:
1. STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.
2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
3. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.
4. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

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

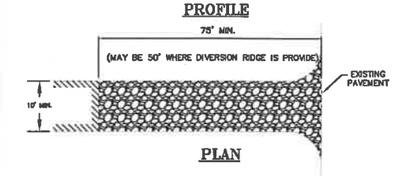
   FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)*
   *LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

SEEDING:
1. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDRO SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
2. TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.
3. AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL 3.
4. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

MAINTENANCE REQUIREMENTS:
1. TEMPORARY SEEDING SHALL BE INSPECTED WEEKLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHALL BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER PERIOD.
2. BASED ON INSPECTION, AREAS SHALL BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED.
3. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.



PROFILE



PLAN

TEMPORARY CONSTRUCTION EXIT

NOT TO SCALE

MAINTENANCE REQUIREMENTS:
1. WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHALL BE REMOVED ALONG WITH THE COLLECTED SOIL MATERIAL, REGRADED ON SITE, AND STABILIZED. THE ENTRANCE SHALL TEN BE RECONSTRUCTED.
2. THE CONTRACTOR SHALL SWEEP THE PAVEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE ADJACENT PAVEMENT OR TRAVELED WAY.
3. WHEN WHEEL WASHING IS REQUIRED, IT SHALL BE CONDUCTED ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT-TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

CONSTRUCTION SPECIFICATIONS:
1. THE MINIMUM STONE USED SHALL BE 3-INCH CRUSHED STONE.
2. THE MINIMUM LENGTH OF THE PAD SHALL BE 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 PAD SHALL BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS GREATER.
4. THE PAD SHALL SLOPE AWAY FROM THE EXISTING ROADWAY.
5. THE PAD SHALL BE AT LEAST 6 INCHES THICK.
6. THE GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.
7. THE PAD SHALL BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.
8. NATURAL DRAINAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHALL BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.

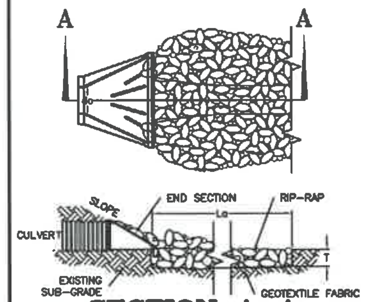
TEMPORARY EROSION AND SEDIMENTATION CONTROLS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION
APRIL 2021

C-10

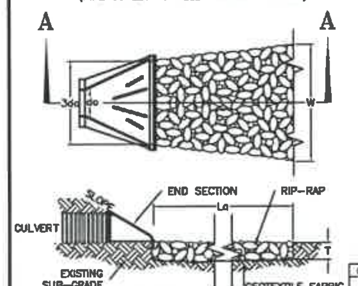
FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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



SECTION A-A

(PIPE OUTLET TO WELL DEFINED CHANNEL)



SECTION A-A

(PIPE OUTLET TO FLAT AREA NO WELL DEFINED CHANNEL)

RIP-RAP GRADATION

d50 = 3"

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)		
100	5	TO	6
85	4	TO	5
50	3	TO	5
15	1	TO	2

d50 = 4"

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)		
100	6	TO	8
85	5	TO	7
50	4	TO	6
15	1	TO	2

d50 = 6"

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)		
100	9	TO	12
85	7.8	TO	10.8
50	6	TO	9
15	1.8	TO	3

d50 = 9"

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)		
100	13.5	TO	18
85	11.7	TO	16.2
50	9	TO	13.5
15	2.7	TO	4.5

APRON DIMENSION TABLE

OUTLET PROT. #	PIPE OUTLET	Wo	W	La	T	d50
1	15" CPP	4'	16'	12'	9"	9"
2	12" CPP	3'	4'	8'	9"	3"
3	12" CPP	3'	11'	8'	9"	3"

NOTES:
1. ALL PIPE CULVERTS SHALL HAVE END SECTIONS OR HEADWALLS. END SECTION MATERIAL AND MANUFACTURER SHALL MATCH THAT OF THE PIPE CULVERT.
2. THE LARGEST RIP-RAP SIZE DETERMINED DURING HYDROLOGIC ANALYSIS HAS BEEN USED FOR ALL OUTLETS FOR ECONOMY AND SIMPLICITY.
3. APRON LENGTHS, WIDTHS AND THICKNESSES HAVE BEEN ROUNDED UP TO WHOLE NUMBERS FOR EASE OF CONSTRUCTION.

CONSTRUCTION SPECIFICATIONS:
1. PREPARE THE SUB-GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP-RAP TO THE GRADES SHOWN ON THE PLANS.
2. MINIMUM 6" SAND/GRAVEL BEDDING OR GEOTEXTILE FABRIC REQUIRED UNDER ALL ROCK RIP-RAP.
3. THE ROCK OR GRAVEL USED FOR FILTER OR RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
4. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF 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 (2) PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
5. 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.
6. RIP-RAP SIZE CHOSEN FOR THE WORST CASE OF ALL OUTLETS. ALL RIP-RAP USED FOR PIPE OUTLET PROTECTION WILL HAVE THE SAME GRADATION AND THICKNESS.

MAINTENANCE NOTES:
1. OUTLETS SHALL BE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EVENT. ANY EROSION OR DAMAGE TO THE RIP-RAP SHALL BE REPAIRED IMMEDIATELY.
2. THE CHANNEL IMMEDIATELY DOWNSTREAM FROM THE OUTLET SHOULD BE CHECKED TO SEE THAT NO EROSION IS OCCURRING.
3. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

PIPE OUTLET PROTECTION DETAIL

DUST CONTROL PRACTICES:

1. APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.
2. WATER APPLICATION:
   A) MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
   B) AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT DEPOSITION IN NATURAL WATERBODIES.
3. STONE APPLICATION:
   A) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
   B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
4. REFER TO "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E. COMMERCIAL TACKIFIERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORIDE, ETC.)

STOCKPILE PRACTICES:

1. LOCATE STOCKPILES A MINIMUM OF 50-FT. AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES OR INLETS.
2. PROTECT ALL STOCKPILES FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS OR OTHER APPROVED PRACTICES.
3. STOCKPILES SHALL BE SURROUNDED BY SEDIMENT BARRIERS AS DESCRIBED ON THE PLANS AND IN NHSMM VOL. 3. TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILE.
4. IMPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
5. PLACE BAGGED MATERIALS ON PALLETS OR UNDERCOVER.

PROTECTION OF INACTIVE STOCKPILES:
6. INACTIVE SOIL STOCKPILES SHALL BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERIMETER SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.
7. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND SIMILAR MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY SHALL ALSO BE COVERED.

PROTECTION OF ACTIVE STOCKPILES:
8. ALL STOCKPILES SHALL BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) PRIOR TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS SHALL BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIAL FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHALL BE INSPECTED AT THE END OF EACH WORKING DAY.
9. WHEN A STORM IS PREDICTED, STOCKPILES SHALL BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

PERMANENT VEGETATION:

SPECIFICATIONS:

SITE PREPARATION:
1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
3. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
4. ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

SEEDBED PREPARATION:
1. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY AND SILT SOILS SHALL BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
2. REMOVE FROM THE SURFACE ALL STONES 2INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE CLODS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.
3. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED; THE AREA MUST BE TILLED AND FIRMED AS ABOVE.
4. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
5. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.
6. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

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

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

SEEDING:
1. INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INOCULANT.
2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE.
3. WHERE FEASIBLE EXCEPT WHERE EITHER CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHALL BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.
4. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHALL BE COMPLETED 45 DAYS PRIOR TO FIRST KILLING FROST. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35% OF THE SEED SHALL BE HARD SEED (UNSCARIFIED). IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATES, MULCH ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL 3. AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
5. AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL 3.
6. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

HYDROSEEDING:
1. WHEN HYDROSEEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.
2. SLOPES BUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY.
3. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.
4. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

MAINTENANCE REQUIREMENTS:
1. PERMANENT SEEDED AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.
2. SEEDED AREAS SHALL BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.
3. BASED ON INSPECTION, AREAS SHALL BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.
4. AT A MINIMUM 85% OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.
5. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

PERMANENT VEGETATION SEEDING RECOMMENDATIONS

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

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

GENERAL CONSTRUCTION PHASING:

1. STABILIZATION:
   A SITE IS DEEMED STABILIZED WHEN IT IS IN A CONDITION IN WHICH THE SOIL ON SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION UNDER THE CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO:
   A)IN AREAS THAT WILL NOT BE PAVED:
   a) A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED;
   b) A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR A CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED, OR;
   c) EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
   B)IN AREAS TO BE PAVED:
   a) BASE COURSE GRAVELS HAVE BEEN INSTALLED.
2. TEMPORARY STABILIZATION:
   ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45 DAYS FROM THE TIME OF INITIAL DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN INDEPENDENT MONITOR.
3. PERMANENT STABILIZATION:
   ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING.
4. MAXIMUM AREA OF DISTURBANCE:
   THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, NO MORE THAN 5 ACRES SHALL BE DISTURBED (NOT STABILIZED) AT ANY TIME.
5. ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.
   A) FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED.
   B) EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.
6. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN DEPICTED ON SHEET C-3.
7. ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN DEPICTED ON SHEET C-4.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED FROM EROSION.
9. STOCKPILES, BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED UNDER "SOIL STOCKPILE PRACTICES".
10. SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DAMAGE.
11. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND/OR OTHER OBJECTIONABLE MATERIALS.
12. AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3-INCHES PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL SHALL BE PLACED WITHOUT SIGNIFICANT COMPACTION TO PROVIDE A LOOSE BEDDING FOR PLACEMENT OF SEED.
13. ALL FILLS SHALL BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, SITE UTILITIES, CONDUITS AND OTHER FACILITIES, SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
14. IN GENERAL, FILLS SHALL BE COMPACTED IN LAYERS RANGING FROM 6 TO 24 INCHES IN THICKNESS. THE CONTRACTOR SHALL REVIEW THE PROJECT GEOTECHNICAL REPORT AND/OR THE "PROJECT SPECIFIC PHASING NOTES" FOR SPECIFIC GUIDANCE.
15. ANY AND ALL FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS (LARGER THAN 3/4 THE DEPTH OF THE LIFT BEING INSTALLED), LOGS, STUMPS, BUILDING DEBRIS, FROZEN MATERIAL AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY LIFTS.
16. FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE (I.E. CLAY, SILT) MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED EROSION. WORK IN AREAS OF THESE MATERIALS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER.
17. THE OUTER FACE OF THE FILL SLOPE SHALL BE ALLOWED TO STAY LOOSE, NOT ROLLED OR COMPACTED, OR BLADE SMOOTHED. A BULLDOZER MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TREADS (CLEAT TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR. SEE "SURFACE ROUGHENING" IN THE NHSMM, VOL.3.
18. ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION AND FACILITATE VEGETATION ESTABLISHMENT.
19. USE SLOPE BREAKS, SUCH AS DIVERSIONS, BENCHES, OR CONTOUR FURROWS AS APPROPRIATE TO REDUCE THE LENGTH OF CUT-FILL SLOPES TO LIMIT SHEET AND RILL EROSION AND PREVENT GULLY EROSION. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF CONSTRUCTION.
20. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE EVALUATED BY A PROFESSIONAL ENGINEER (PREFERABLY THE DESIGN ENGINEER) TO DETERMINE IF THE PROPOSED DESIGN SHALL BE REVISED TO PROPERLY MANAGE THE CONDITION.
21. STABILIZE ALL GRADED AREAS (AS ABOVE) WITH VEGETATION, CRUSHED STONE, COMPOST BLANKET, OR OTHER GROUND COVER AS SOON AS GRADING IS COMPLETE OR IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE. USE MULCH OR OTHER APPROVED METHODS TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.
22. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
23. THE PROJECT SHALL BE CONSTRUCTED TO MEET ALL REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ARG 3800 RELATIVE TO INVASIVE SPECIES.

ABOVE NOTES EXCERPTED, ADAPTED AND REFERENCED FROM "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" (NHSMM, VOL. 3)

PROJECT SPECIFIC CONSTRUCTION PHASING:

1. REFER TO THE "GENERAL CONSTRUCTION PHASING" NOTES PRIOR TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING. THE "GENERAL CONSTRUCTION PHASING" NOTES APPLY TO THE OVERALL CONSTRUCTION AND SHALL BE ADHERED TO.
2. INSTALL ALL TEMPORARY SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE, EROSION CONTROL MIX BERM, STONE CHECK DAMS, ETC.) AROUND THE OUTER PERIMETER OF THE CONSTRUCTION SITE AS DEPICTED ON SHEET C-4 PRIOR TO EARTH MOVING OPERATIONS.
3. INSTALL ORANGE SNOW FENCE AROUND THE PERIMETER OF THE INFILTRATION BASINS AND THE FENCE SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OF THE BASINS HAS STARTED.
4. CLEAR, GRUB AND STRIP THE SITE. STUMPS, BRUSH AND OTHER ORGANIC WASTE SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
5. INSTALL A TEMPORARY CONSTRUCTION EXIT AT THE LOCATION OF THE PROPOSED ROADWAY CONNECTION TO ROAD NAME. MAINTAIN AS DIRECTED BY THE TEMPORARY CONSTRUCTION EXIT DETAIL.
6. STOCKPILE STRIPPED TOPSOIL AND CUT MATERIAL TO BE REUSED ON SITE IN AN APPROPRIATE LOCATION IN ACCORDANCE WITH THE "SOIL STOCKPILES PRACTICES". MAINTAIN THE STOCKPILES AS DIRECTED IN THE "SOIL STOCKPILE PRACTICES".
7. PERFORM THE NECESSARY CUTS AND FILLS TO CONSTRUCT THE INFILTRATION BASIN AS DEPICTED ON SHEET C-3 AND IN ACCORDANCE WITH THE INFILTRATION BASIN DETAILS SHOWN ON SHEET C-9.
8. CONSTRUCT THE GRAVEL WETLANDS BASIN, SEDIMENT FOREBAY AND OUTLET PROTECTION. LOAM SEED AND MULCH THE SIDE SLOPES OF THE BASIN AS DIRECTED IN THE INFILTRATION BASIN DETAILS.
9. ALL DITCHES/SWALES/AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
10. PERFORM THE NECESSARY CUTS AND FILLS TO SUBGRADE IN THE BUILDING AND PARKING LOT AREAS.
    A) INSTALL REQUIRED FILLS IN MAXIMUM 8-INCH LIFTS AND COMPACT EACH LIFT TO 95% MAXIMUM PROCTOR DENSITY.
11. AS SUBGRADE IS ACHIEVED INSTALL REMAINING SEDIMENT CONTROL BARRIERS WITHIN THE SITE (I.E. ADDITIONAL SILT FENCE, CHECK DAMS AND SEDIMENT CONTROLS AND CATCH BASINS, ETC.)
12. INSTALL ALL UTILITIES AND CLOSED DRAINAGE SYSTEM COMPONENTS (I.E. PIPE CULVERTS, CATCH BASINS AND REMAINING WATER MAIN) PER THE CORRESPONDING DETAILS AND AS SHOWN ON SHEET C-3 AND C-5, AS EACH STRUCTURE IS COMPLETED INSTALL THE CORRESPONDING SEDIMENT CONTROL MEASURE.
13. CONSTRUCT THE INFILTRATION BASIN AND OUTLET PROTECTION. LOAM SEED AND MULCH THE SIDE SLOPES OF THE BASIN AS DIRECTED IN THE INFILTRATION BASIN DETAILS AND TEMPORARY SEDIMENT CONTROL BARRIER DEPICTED ON SHEET C-4.
14. ALL CUT AND FILL SLOPES AND LAWN AREAS NOT TO BE PAVED SHALL BE LOAMED AND SEEDED FOR PERMANENT VEGETATION AND STABILIZATION AS DESCRIBED UNDER THE "PERMANENT VEGETATION PRACTICES" WITHIN 3 DAYS OF ACHIEVING FINAL GRADE.
15. INSTALL ALL GRAVEL BASE AND CRUSHED GRAVEL MATERIALS FOR THE PARKING AREA AS SPECIFIED IN THE CORRESPONDING DETAILS.
16. THE PARKING AREAS SHALL BE STABILIZED (CONSTRUCTED TO GRAVEL BASE COURSE) WITHIN 3 DAYS OF ACHIEVING FINISHED SUBGRADE ELEVATIONS.
17. INSTALL PAVEMENT SURFACES AS SOON AS POSSIBLE AFTER THE INSTALLATION OF THE GRAVEL BASE AND CRUSHED GRAVEL, IN ORDER TO LIMIT THE SOIL EROSION AND POLLUTION OF THE GRAVEL MATERIALS WITH ORGANIC MATERIALS. IN NO CASE SHALL AREAS TO BE PAVED BE LEFT UNPROTECTED THROUGH OUT THE WINTER MONTHS.
18. ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE. IN NO CASE SHALL ANY DISTURBED AREA BE LEFT UN-STABILIZED FOR LONGER THAN 21 DAYS. IF NECESSARY TEMPORARY STABILIZATION MEASURES AS DISCUSSED IN THE "GENERAL CONSTRUCTION PHASING NOTES" AND NHSMM, VOL. 3 SHOULD BE EMPLOYED.

MAINTENANCE AND INSPECTION:
1. DURING CONSTRUCTION ALL TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE INSPECTED WEEKLY, AFTER EVERY 1/2 INCH OF RAINFALL, AND ANNUALLY.
2. EXCESS SEDIMENT SHOULD BE REMOVED FROM TEMPORARY SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOLDS DISCUSSED IN THE DETAILS FOR EACH PRACTICE.
3. ALL DAMAGED TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE REPAIRED OR REPLACED IMMEDIATELY UPON NOTICE.
4. SEDIMENT SHALL BE DISPOSED OF PROPERLY EITHER ON SITE OR OFF SITE.

PROJECT COMPLETION AND STABILIZATION:
1. UPON PROJECT COMPLETION, ONCE THE SITE IS DEEMED STABILIZED (VEGETATION IS GERMINATED), THE TEMPORARY SEDIMENT CONTROL BARRIERS AND EROSION CONTROL PRACTICES SHALL BE REMOVED. ANY DISTURBANCE CREATED DURING REMOVAL SHALL BE REPAIRED IN AN APPROPRIATE MANNER.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ON SITE CATCH BASINS AND THE SEDIMENT FOREBAYS TO THE GRAVEL WETLANDS BASIN.

WINTER STABILIZATION & CONSTRUCTION PRACTICES:

MAINTENANCE REQUIREMENTS:
1. MAINTENANCE MEASURES SHALL BE PERFORMED THROUGHOUT CONSTRUCTION, INCLUDING OVER THE WINTER PERIOD. AFTER EACH RAINFALL, SNOWSTORM, OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL CONDUCT INSPECTION OF ALL INSTALLED EROSION CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUED FUNCTION.
2. FOR ANY AREA STABILIZED BY TEMPORARY OR PERMANENT SEEDING PRIOR TO THE ONSET OF THE WINTER SEASON, THE CONTRACTOR SHALL CONDUCT AN INSPECTION IN THE SPRING TO ASCERTAIN THE CONDITION OF THE VEGETATION AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH.)

SPECIFICATIONS:
THE FOLLOWING STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 15.
1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1-ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DISCUSSED IN NHSMM, VOL. 3 AND ELSEWHERE IN THIS PLAN SET, PRIOR TO ANY THAW OR SPRING MELT EVENT.
2. STABILIZATION AS FOLLOWS SHALL BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.
   A. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (REFER TO NHSMM, VOL. 3 FOR SPECIFICATION).
   B. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15 SHALL BE SEEDED AND COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET OR WITH A MINIMUM OF 4 INCHES OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHALL NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERHEAT.
3. ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.
5. ALL MULCH APPLIED DURING WINTER SHALL BE ANCHORED (I.E. BY NETTING, TRACKING, WOOD CELLULOSE FIBER).
6. WITHIN 24 HOURS OF STOCKPILING SOIL MATERIALS SHALL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4 INCH LAYER OF EROSION CONTROL MIX. MULCH SHALL BE REESTABLISHED PRIOR TO ANY RAIN OR SNOWFALL. NO SOIL STOCKPILE SHALL BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100-FT OF ANY WETLAND OR OTHER WATER RESOURCE AREA.
7. FROZEN MATERIAL (I.E. FROST LAYER REMOVED DURING WINTER CONSTRUCTION) SHALL BE STOCKPILED SEPARATELY AND IN A LOCATION AWAY FROM ANY AREA NEEDING PROTECTION. FROZEN MATERIAL STOCKPILES CAN MELT IN SPRING AND BECOME UNWORKABLE AND DIFFICULT TO TRANSPORT DUE TO HIGH SOIL MOISTURE CONTENT.
8. INSTALLATION OF EROSION CONTROL BLANKETS SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH OR ON FROZEN GROUND.
9. ALL GRASS-LINED DITCHES AND CHANNELS SHALL BE CONSTRUCTED BY SEPTEMBER 1. ALL DITCHES AND SWALES WHICH DO NOT EXHIBIT 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY A PROFESSIONAL ENGINEER. IF STONE LINING IS NECESSARY, THE CONTRACTOR MAY NEED TO RE-GRADE THE DITCH AS REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.
10. ALL STONE LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
11. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STOPPED FOR THE WINTER SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF SAND AND GRAVEL WITH A GRADATION THAT IS LESS THAN 12% OF THE SAND PORTION, OR MATERIAL PASSING THE NUMBER 4 SIEVE, BY WEIGHT, PASSES THE NUMBER 200 SIEVE.
12. SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHALL CONSIST OF EROSION CONTROL MIX BERMS, OR CONTINUOUS CONTAINED BERMS. SILT FENCES AND HAY BALES SHALL NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

PERMANENT EROSION AND SEDIMENTATION CONTROLS

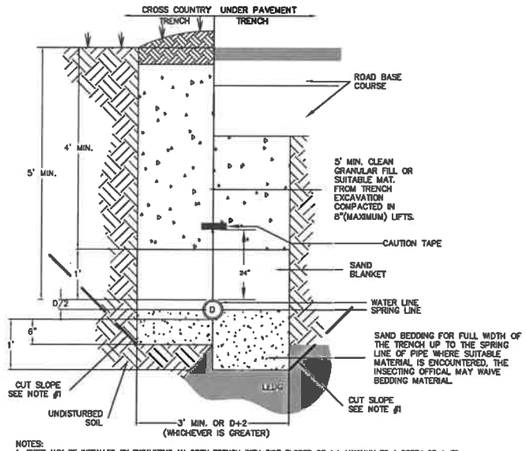
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
GRANITE STATE CREDIT UNION
APRIL 2021

C-11

31 Mooney Street, Alton, N.H. 603-875-3948
NORWAY PLAINS ASSOCIATES, INC.
2 Continental Blvd., Rochester, N.H. 603-335-3948

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

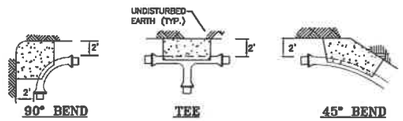
STATE OF NEW HAMPSHIRE — SCOTT A. LAWLER No. 10024 LICENSED PROFESSIONAL ENGINEER



NOTES:
1. PIPES MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4-FT. INSTALLATIONS DEEPER THAN 4-FT REQUIRE THE USE OF A TRENCH BOX.
2. PIPE MATERIALS SHALL BE AS SPECIFIED ON THE DESIGN PLAN.
3. SAND BLANKET MAY BE OMITTED FOR REINFORCED CONCRETE PIPE.

WATER PIPE TRENCH INSTALLATION DETAIL

NOT TO SCALE



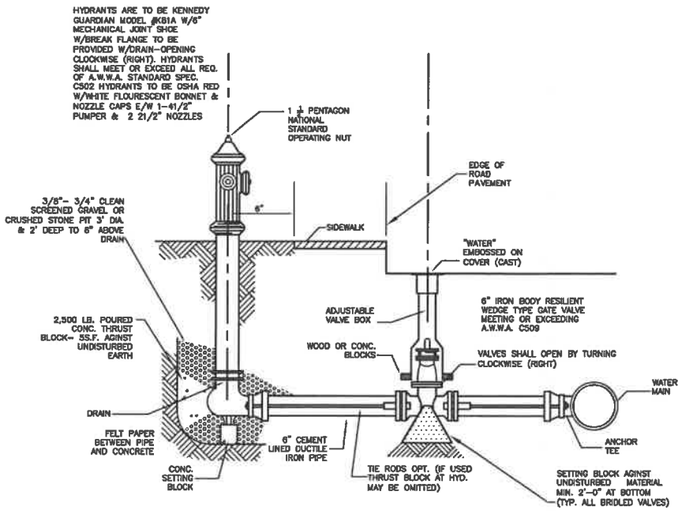
90° BEND TEE 45° BEND

MINIMUM THRUST BLOCK BEARING AREA REQ'D AGAINST UNDISTURBED MATERIAL (SQ. FT.)					
PIPE SIZE	90 BEND	TEE	PLUG	45 BEND	22½° & SMALLER
6"	5	4	3	2	2
8"	10	8	6	6	3
12"	24	18	8	12	6

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

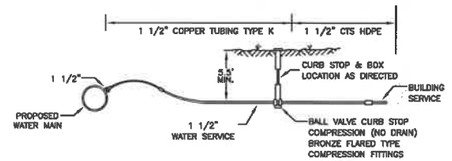
WATER MAIN THRUST BLOCK DETAILS

NOT TO SCALE



TYPICAL HYDRANT SECTION

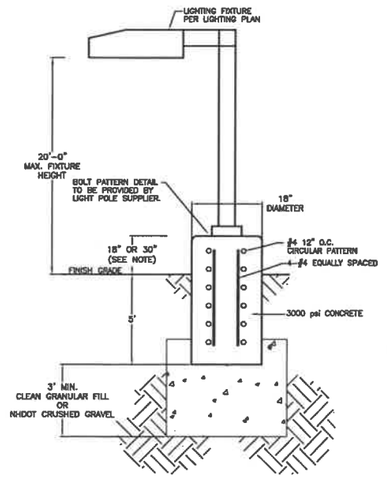
NOT TO SCALE



NOTE: SERVICE LINE SHALL BE TYPE K COPPER CONFORMING TO ASTM-D88

TYPICAL DOMESTIC SERVICE CONNECTION

NOT TO SCALE

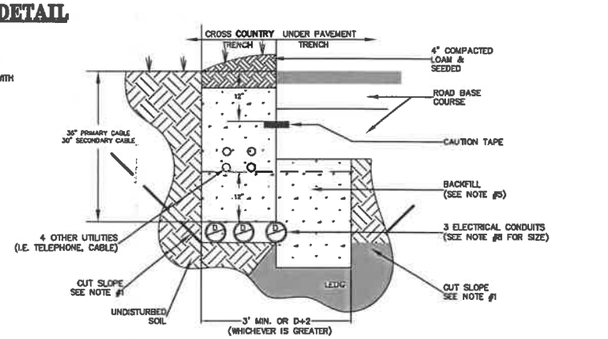


POLE MOUNTED LIGHT DETAIL

NOTE:
1. LIGTH POLE BASE SHALL BE 18" ABOVE FINISH GRADE FOR NON VEHICLE IMPACT AREAS AND 30" FOR VEHICLE IMPACT AREAS.
2. THE LIGTH POLE BASES CAN BE PRECAST, WITH COORDINATION WITH THE LIGHTING FIXTURE MANUFACTURE FOR BOLT PATTERN.

GENERAL UTILITY NOTES

1.) CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888 344-7233) 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
2.) ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND ELEVATIONS.
3.) THESE PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF THE SURVEY. THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. FROM THIS PLAN, BUT IN EXISTENCE IS NOT INTENDED OR IMPLIED.
4.) ANY UTILITY POLES THAT NEED TO BE RELOCATED SHALL BE COORDINATED WITH EVERSOURCE OR VERIZON, WHOM EVER HAS CONTROL OVER THEM.
5.) PROPOSED UTILITIES ARE TO BE UNDERGROUND. COORDINATE LOCATION OF UNDERGROUND UTILITIES AND TRANSFORMER PADS WITH PSNH AND OTHER PERTINENT UTILITY COMPANIES.
6.) WATER AND SEWER LINES SHALL BE INSTALLED A MINIMUM OF 10-FT APART HORIZONTALLY.
7.) WHERE SEWER AND WATER LINES MUST CROSS, SEWER PIPE JOINTS SHALL BE LOCATED A MINIMUM 9-FT HORIZONTALLY FROM THE WATER LINE AND A VERTICAL SEPARATION OF 18-INCHES SHALL BE MAINTAINED.
8.) SEWER PIPE JOINTS SHALL BE TESTED WITH ZERO LEAKAGE AT 25 POUNDS PER SQUARE INCH FOR GRAVITY SEWER AND AT 1-1/2 TIMES WORKING PRESSURE FOR ALL FORCE MAINS.
9.) WATERLINE CONSTRUCTION:
A.) ALL PROPOSED WATER LINE MATERIAL USED SHALL MEET ROCHESTER WATER DEPARTMENT AND ROCHESTER ENGINEERING DEPARTMENT SPECIFICATIONS. WATER LINES SHALL BE A.W.W.A C 151, CLASS 52, CEMENT LINED, DUCTILE IRON PIPE.
B.) PROPOSED WATER GATE VALVES SHALL BE MANUFACTURED BY KENNEDY OF AMERICAN FLOW CONTROL, RESILIENT SEAT TYPE.
C.) ALL WATER LINES SHALL BE BURIED A MINIMUM OF 5'.
D.) IF 5' OF COVER IS NOT AVAILABLE WATER LINE SHALL BE INSULATED AS SHOWN IN THE "SHALLOW COVER TRENCH DETAIL FOR INSULATED WATER PIPE".
E.) ALL WATER FITTINGS SHALL BE CLASS 52.
F.) PROPOSED WATER GATE VALVE SHALL OPEN CLOCKWISE (RIGHT).
10.) WORK TO CONNECT INTO THE WATER OR SEWER MAINS REQUIRES A PERMIT FROM THE ROCHESTER PUBLIC WORKS DEPARTMENT. CONTRACTORS ARE TO BE PRE-QUALIFIED.



NOTES:
1. ALL NON-METALLIC CONDUIT AND FITTINGS SHALL BE ELECTRICAL GRADE, SCHEDULE 40 PVC, AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF NEMA TC2-1990 AND BE UL LISTED. DRAY-COLORED CONDUIT WILL BE ACCEPTED. ANY PVC CONDUIT NOT HAVING THE PROPER NEMA AND UL MARKINGS WILL NOT BE ACCEPTED. ALL STEEL CONDUITS SHALL CONFORM TO ASTM A120 AND BE RIGID GALVANIZED STEEL. ALL PVC JOINTS MUST BE CEMENTED. STEEL FITTINGS SHALL BE SEALED WITH COMPOUND.
2. ALL 90 DEGREE SWEEPS WILL BE MADE USING RIGID GALVANIZED STEEL WITH A MINIMUM RADIUS OF 36 INCHES FOR PRIMARY CABLES AND 24 INCHES FOR SECONDARY CABLES. ALL STEEL SWEEPS WITHIN 18" OF THE SURFACE SHALL BE PROPERLY GROUNDED.
3. A 10-FOOT HORIZONTAL SECTION OF RIGID GALVANIZED STEEL CONDUIT WILL BE REQUIRED AT EACH SWEEP, UNLESS IN THE OPINION OF THE EVERSOURCE DESIGNER, THE SWEEP-PVC JOINT IS NOT SUBJECT TO FAILURE DURING CABLE PULLING.
4. THE CONDUIT SHALL CROSS PAVED AREAS AT APPROXIMATELY 90 DEGREES.
5. BACKFILL MAY BE MADE WITH EXCAVATED MATERIAL OR COMPARABLE, UNLESS MATERIAL IS DEEMED UNSUITABLE BY EVERSOURCE. BACKFILL SHALL BE FREE OF FROZEN LUMPS, ROCKS, DEBRIS, AND RUBBISH. ORGANIC MATERIAL SHALL NOT BE USED AS BACKFILL. BACKFILL SHALL BE THOROUGHLY COMPACTED IN 6-INCH LAYERS.
6. A SUITABLE PULL STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE EVERSOURCE IS NOTIFIED TO INSTALL CABLE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.
7. ROUTING OF THE CONDUIT AND INSPECTION PRIOR TO BACKFILL WILL BE PROVIDED BY EVERSOURCE. INSTALLATION OF THE CONDUIT WILL BE DONE BY THE CONTRACTOR. THE EVERSOURCE SUPERVISOR MUST BE NOTIFIED 2 BUSINESS DAYS PRIOR TO BACKFILLING THE TRENCH. IN THE EVENT THAT A CABLE CANNOT BE SUCCESSFULLY PULLED THROUGH THE COMPLETED CONDUIT SYSTEM DUE TO A CONSTRUCTION ERROR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND REPAIR THE INVOLVED CONDUIT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RESULTING EXPENSES.
8. NORMAL CONDUIT SIZES FOR EVERSOURCE ARE 3-INCH FOR SINGLE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4-INCH FOR THREE PHASE SECONDARY, AND 5-INCH FOR THREE PHASE PRIMARY.
9. ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND WHERE APPLICABLE THE NATIONAL ELECTRIC CODE.
10. CONDUIT MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4-FT. INSTALLATIONS DEEPER THAN 4-FT REQUIRE THE USE OF A TRENCH BOX.

ELECTRICAL & UNDERGROUND UTILITY TRENCH INSTALLATION DETAIL

NOT TO SCALE

UTILITY DETAILS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021

C-12

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

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

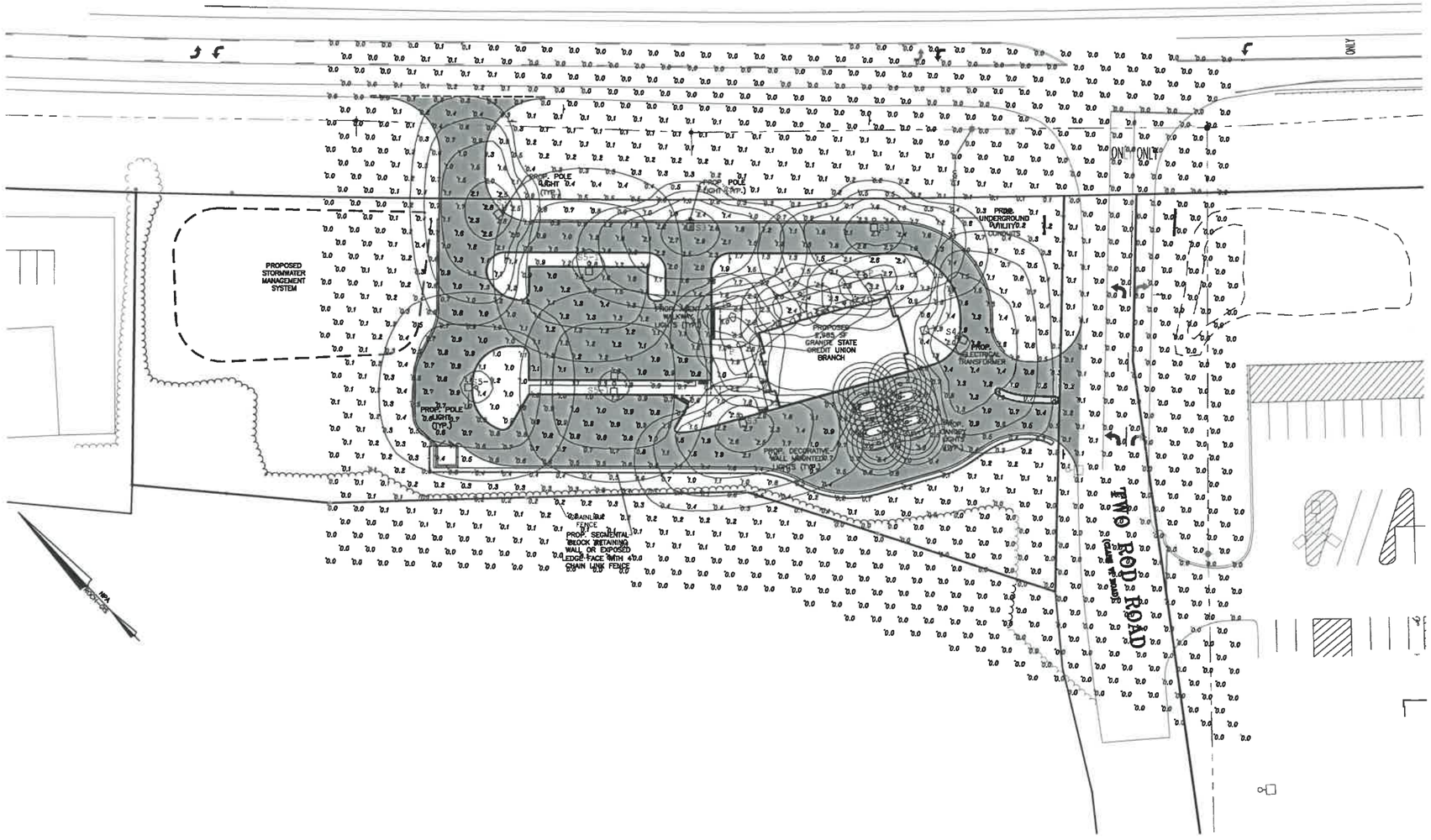
LEGEND

- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- EXISTING OVERHEAD WIRES
- EXISTING LIGHT POLES
- PROPOSED BUILDING
- PROPOSED PAVEMENT
- PROPOSED PAVEMENT WITH CURBING
- PROPOSED LIGHT POLES
- PROPOSED BUILDING LIGHT FIXTURES
- PROPOSED LIGHT FOOTCANDLE
- PROPOSED LIGHT ISOILLUMINATION LINES

Luminaire Schedule				
Symbol	Label	Qty	Arrangement	Description
☼	C	6	SINGLE	PR8I5D010 - PR8M12WDMW - 4000K
☼	P	4	SINGLE	77910 / 928 (BOF 14' - AFG)
○□	S3	4	SINGLE	GLEON-SA1C-740-U-T3/ SSS4A20SFN1 (20' AFG)
○□	S4	1	SINGLE	GLEON-SA1C-740-U-T4W/ SSS4A20SFN1 (20' AFG)
○□	S5-1	3	SINGLE	GLEON-SA1B-740-U-5WQ/ SSS4A20SFN1 (20' AFG)

THE SOURCE FOR ALL THINGS L.E.D.

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



BEGA
SINGLE POLE-TOP LUMINAIRE

MCGRAW-EDISON
GLEON GALLESON LED

COOPER LIGHTING SOLUTIONS
HALO COMMERCIAL

LIGHTING PLAN AND DETAILS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:

GRANITE STATE CREDIT UNION

APRIL 2021

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 INCH = 30 FT.

L-1

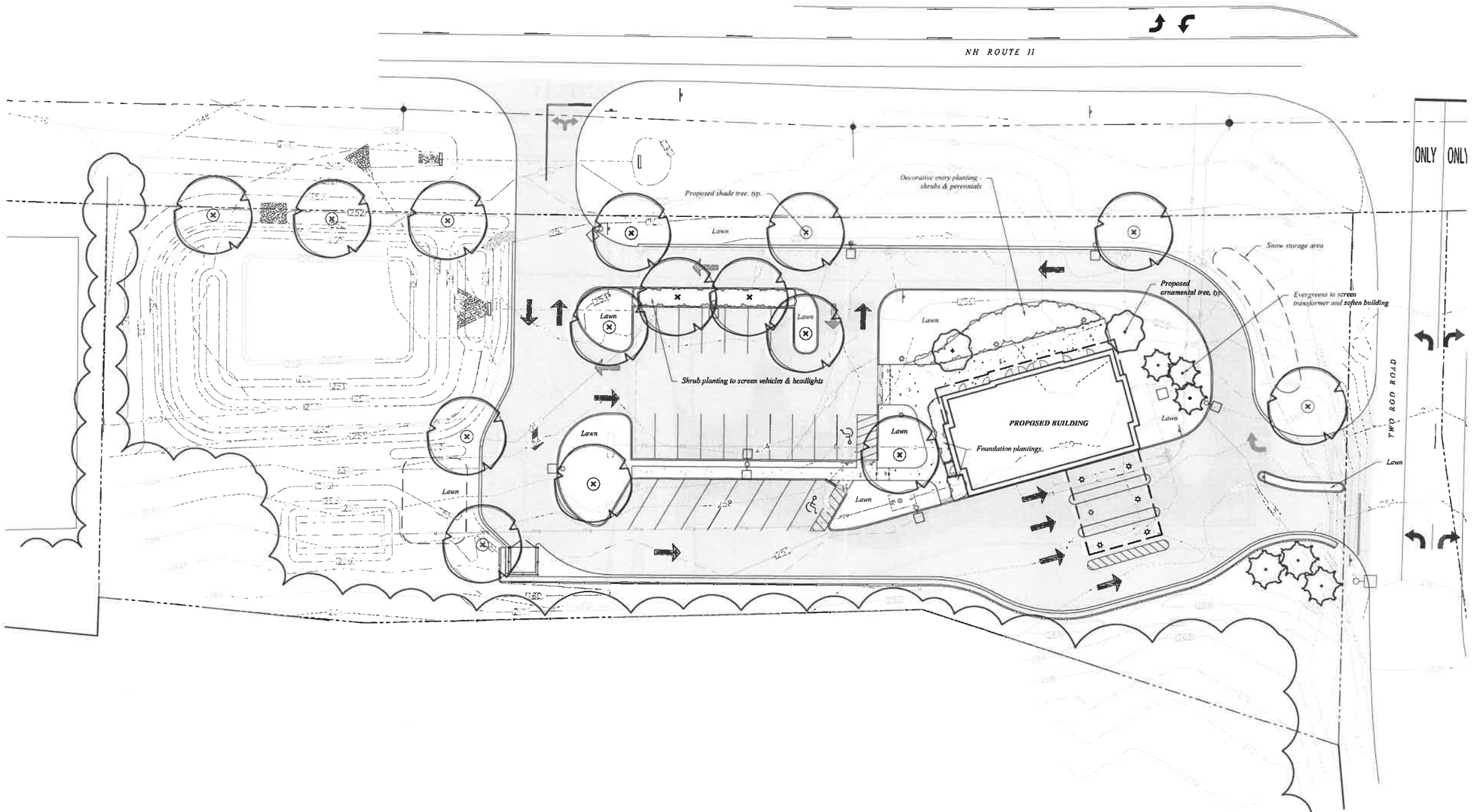
FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

LAND SURVEYORS

CIVIL ENGINEERS



LANDSCAPE CONCEPT PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:

GRANITE STATE CREDIT UNION

APRIL 2021

GRAPHIC SCALE

0 5 10 20 40

(IN FEET)
1 INCH = 20 FT.

L-2

woodburn & company
LANDSCAPE ARCHITECTURE
103 Kent Place Newmarket, New Hampshire Phone: 603.659.5949

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

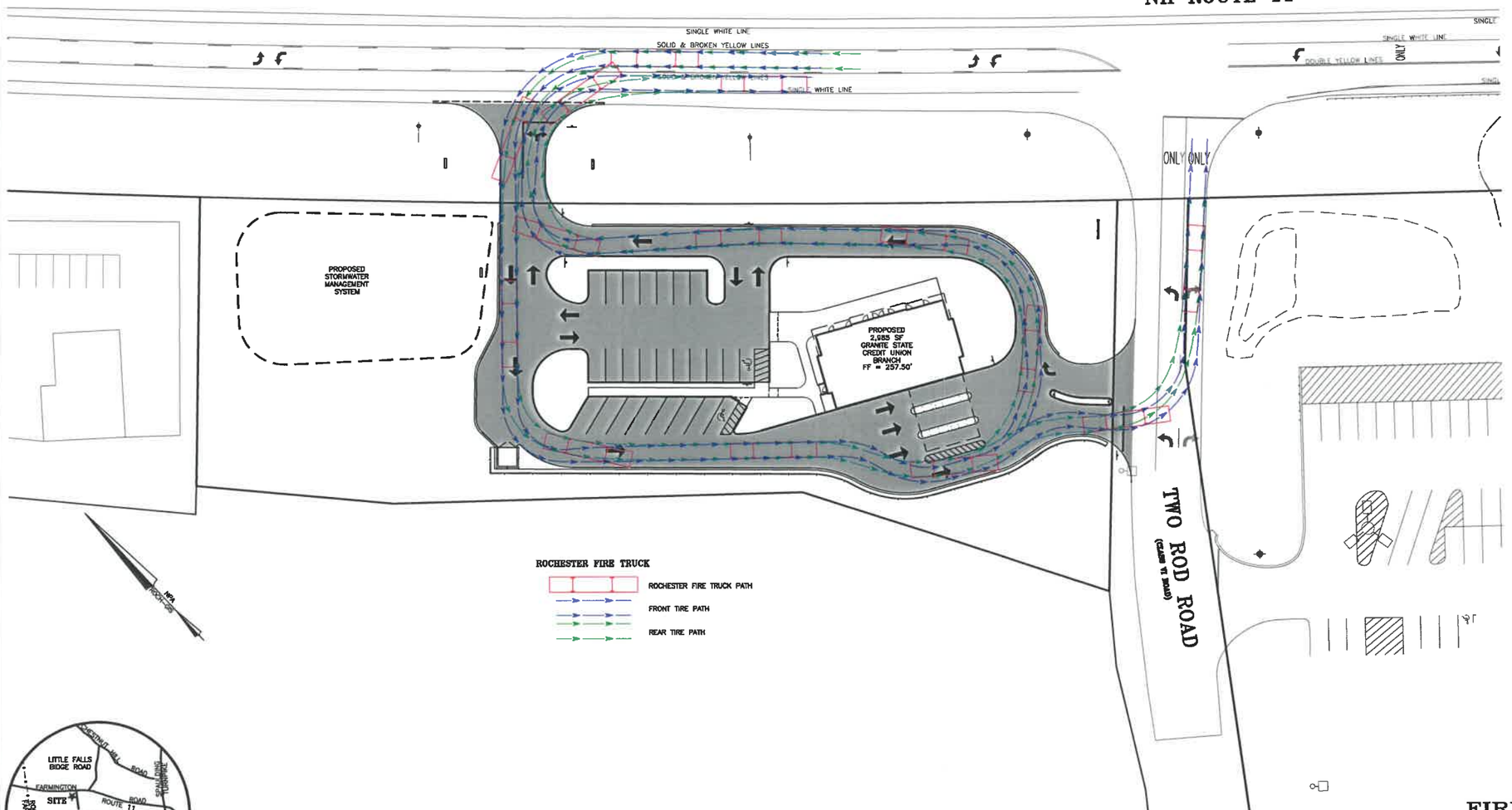
2 Continental Blvd., Rochester, N.H. 603-335-3948

LAND SURVEYORS

CIVIL ENGINEERS

LEGEND

- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- EXISTING TREE LINE
- EXISTING OVERHEAD WIRES
- EXISTING HYDRANT
- EXISTING WATER GATE OR SHUT-OFF VALVE
- EXISTING UTILITY POLE
- EXISTING SEWER MAN HOLE
- EXISTING CATCH BASIN
- EXISTING LIGHT POLES
- PROPOSED BUILDING
- PROPOSED PAVEMENT



LOCUS MAP

NTS

FILE NO. 116
PLAN NO. C-
DWG. NO. 20229/SP-1

FIRE TRUCK TURNING PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:

GRANITE STATE CREDIT UNION

FEBRUARY 2021

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 INCH = 30 FT.

T-1

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

NORWAY PLAINS ASSOCIATES, INC.

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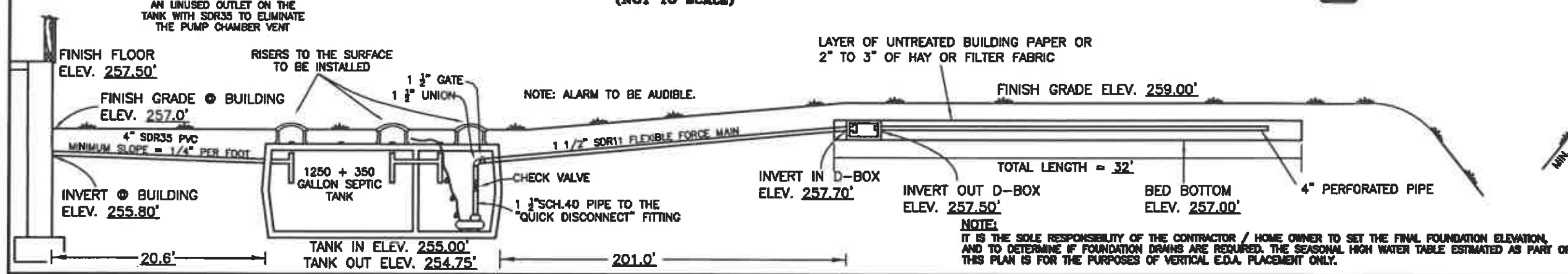
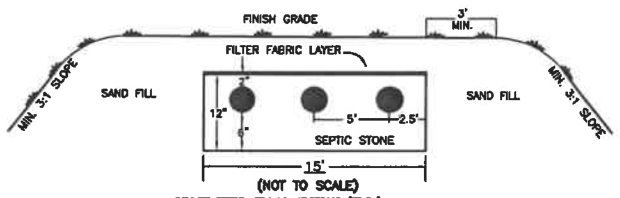
LAND SURVEYORS — CIVIL ENGINEERS

PIPE AND STONE CROSS SECTION
(NOT TO SCALE)



NOTE: IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR / HOME OWNER TO SET THE FINAL FOUNDATION ELEVATION, AND TO DETERMINE IF FOUNDATION DRAINS ARE REQUIRED. THE SEASONAL HIGH WATER TABLE ESTIMATED AS PART OF THIS PLAN IS FOR THE PURPOSES OF VERTICAL E.D.A. PLACEMENT ONLY.



(NOT TO SCALE)
LEACH FIELD CROSS-SECTION (TYP.)

CONSTRUCTION NOTES:

1. SYSTEM IS DESIGNED ONLY TO ACCOMMODATE SANITARY SEWAGE ASSOCIATED WITH THE NORMAL DOMESTIC USAGE AND CONSISTANCE OF WATER-CARRIED PUTRESCIBLE WASTE.
2. THE SYSTEM IS NOT DESIGNED FOR GARBAGE GRINDERS.
3. THE SYSTEM SHALL BE VENTED WHEN THERE IS MORE THAN 18" OF BACKFILL USED TO COVER THE SYSTEM.
4. DISPOSAL SYSTEM AREAS TO BE RAKED (SCARIFIED) BEFORE INSTALLATION OF STONE. ALL STONES EXCEEDING 8 INCHES IN DIAMETER AND ALL LOAM OR FOREIGN MATERIAL ENCOUNTERED DURING EXCAVATION ARE TO BE REMOVED FROM THE LEACHING AREA BED SURFACE.
5. ALTERNATE MANUFACTURERS FOR CONCRETE STRUCTURES AND EQUIPMENT MAY BE USED AS LONG AS THE USE OF THEIR PRODUCTS DO NOT REQUIRE ANY DESIGN CHANGES.
6. BOUNDARIES SHOWN ARE FOR SEPTIC SYSTEM DESIGN PURPOSES ONLY AND NOT THE RESULT OF A BOUNDARY SURVEY. LIABILITY FOR ACTIONS UNDERTAKEN IN RELIANCE UPON THIS PLAN, INSOFAR AS THEY RELATE TO THE SETBACKS FROM PROPERTY OR RIGHT-OF-WAY LINES, RESTS SPECIFICALLY WITH THE INSTALLER AND/OR THE OWNER.
7. PIPES ENTERING AND EXITING ALL TANKS AND THE DISTRIBUTION BOX SHALL BE SEALED WITH WITH A WATERTIGHT, FLEXIBLE JOINT CONNECTOR THAT COMPLIES WITH ENV-WQ 1010.08.
8. APPROVED SEPTIC STONE SHALL BE ONE NOMINAL SIZE WITHIN THE RANGE OF 3/4" TO 2 1/2" AND FREE OF FINES, IN ACCORDANC WITH THE FOLLOWING:

SIEVE SIZE	% PASSING (BY WEIGHT)
2"	100
1"	90-100
3/4"	0-20
#4	0-5
#200	0-1.5

WETLANDS WERE DELINEATED ON THE BASIS OF HYDROPHYTIC VEGETATION, HYDRIC SOILS, AND WETLANDS HYDROLOGY IN ACCORDANCE WITH THE TECHNIQUES OUTLINED IN THE CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1, JANUARY 1987. THE HYDRIC SOIL COMPONENT WAS DETERMINED BY USING THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3, APRIL 2004. (SEE ENV-WS 1014.03 DELINEATION OF WETLANDS; HYDRIC SOILS DETERMINATION)

IN TERMS OF RESPONSIBILITY FOR THE DELINEATIONS SHOWN, EITHER THE DESIGNER IS RESPONSIBLE FOR THEM (CONDUCTED BY THE DESIGNER) OR THE PLANS MUST BE STAMPED BY A CERTIFIED WETLANDS SCIENTIST

UNLESS OTHERWISE SHOWN HEREON, THERE ARE NO CEMETERIES OR BURIAL GROUNDS WITHIN 100' OF ANY COMPONENT OF THE PROPOSED SYSTEM.

MAINTENANCE

PROPOER MAINTENANCE AND CARE ARE REQUIRED FOR SEPTIC SYSTEMS TO FUNCTION PROPERLY. THE FOLLOWING ARE SOME ITEMS THAT MAY SHORTEN SYSTEM LIFE:

- SOME WATER SOFTENERS/PURIFIERS
- GARBAGE DISPOSAL UNITS
- EXCESSIVE USE OF WATER
- HOT TUBS
- SOME CLEANERS
- TOXIC CHEMICALS

TANK SHOULD BE INSPECTED AT LEAST ONCE A YEAR AND CLEANED WHEN NECESSARY.

LOT LOADING CALCULATIONS:

LOT LOADING = 2000 GPD/ACRE X (LOT AREA - WELL RADII - POORLY DRAIN SOILS) / SEWAGE LOADING FACTOR

LOT LOADING = 2000 GPD/ACRE X (1.93 AC - 0.0 AC - 0.00 AC) / 1.43 (GROUP 2, 8 - 15% SLOPES) = 2,699 GPD

LOT LOADING = 2,699 GPD >= 300 GPD (MIN. COMMERICAL)

DESIGN INTENT

THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM (EDS) SHALL BE CONSTRUCTED AT ELEVATION 257.00'. THERE IS APPROXIMATELY 1.65" BELOW ORIGINAL GROUND ON THE HIGH CONTOUR OF THE DESIGNED EDS.

BEFORE INSTALLATION, INSTALLER MUST VERIFY ALL ELEVATIONS AND DISTANCES. IF SYSTEM HAS EXISTING BUILDINGS, ALL PLUMBING ELEVATIONS MUST BE CHECKED.

CONTACT DESIGNER IF ANY DISCREPANCIES ARE FOUND.

4" PIPE IN LEACH FIELD TO BE PERFERATED WITH HOLES AT 5&7 O'CLOCK
4" PIPE FROM D BOX TO LATERALS TO BE SOLID

LOAD = 300 GPD

2 DOSES PER DAY = 100 GALLONS PER DOSE

PUMP OFF = 251.40' + 0.33' = 251.73'

PUMP ON = 251.73' + (67.5 GAL/135 GAL PER V.F.) = 252.23'

ALARM = 252.23' + 0.5' = 252.73'

RUN TIME = 67.5 GAL PER DOSE/25 GAL PER MINUTE = 2.7 MINUTES

USE MYERS SSM331 PUMP.

NOTE: ALARM MUST BE VISUAL AND AUDIBLE.
ALARM AND PUMP TO BE ON SEPERATE ELECTRICAL CIRCUITS.

SYSTEM REQUIREMENTS

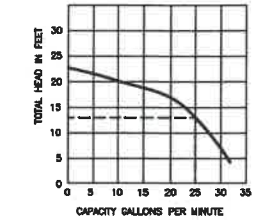
PROPOSED DESIGN LOADING:

OFFICE WITHOUT CAFETERIA = 10 GPD/EMPLOYEE	
12 EMPLOYEES X 10 GPD/EMPLOYEE =	120 GPD
TOTAL DESIGN FLOW =	120 GPD
USE MIN. DESIGN FLOW FOR COMERICAL	300 GPD

COMMERICAL LOADING @ 6 MPI PERC. RATE FOR STONE AND PIPE:
EDA = 300 GPD X 155 SF/100 GPD = 465 SQUARE FEET

680 SQUARE FEET OF PIPE AND STONE PROVIDED (20' x 34').

SSM331 SERIES CURVE



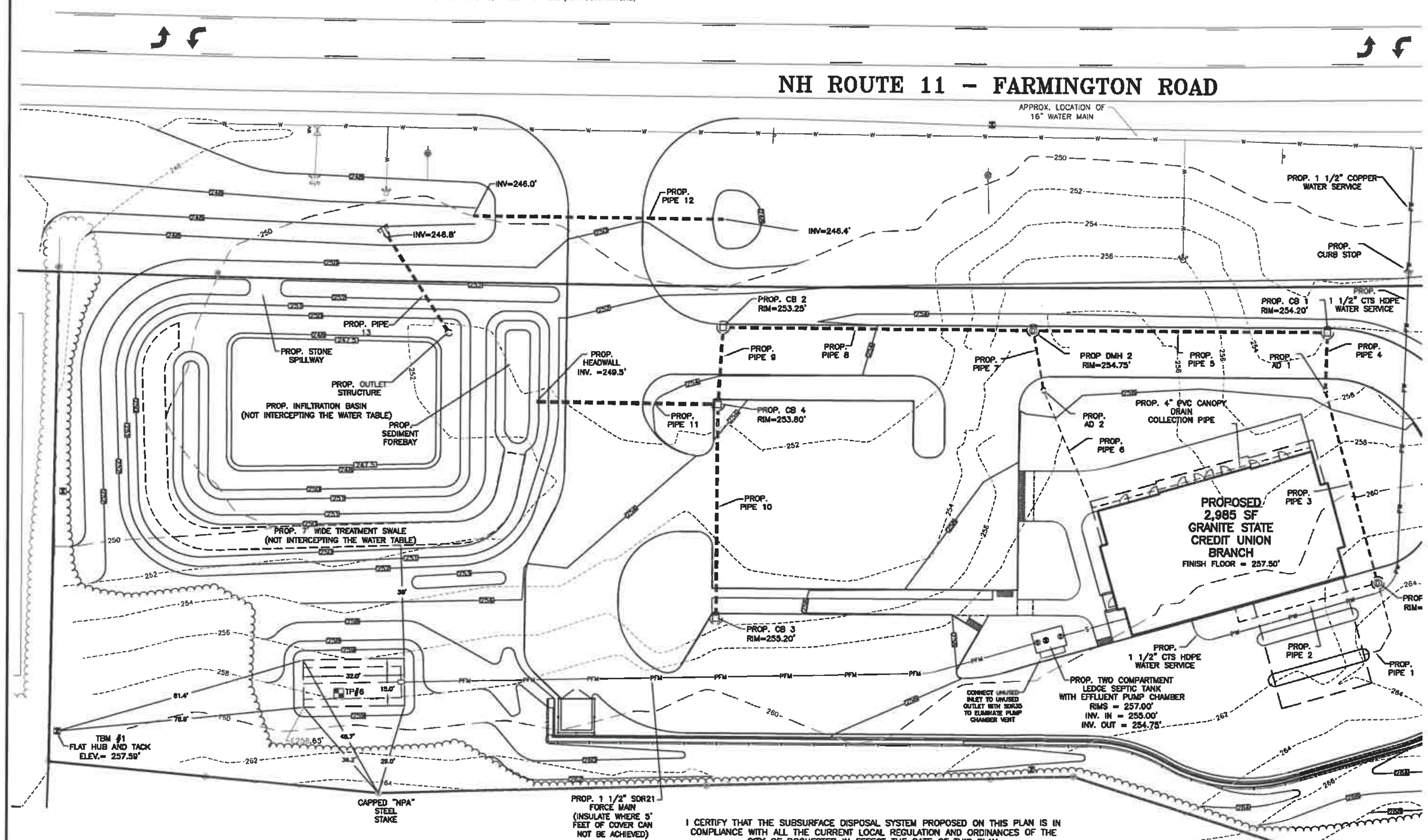
PERCOLATION TEST DATA

DATE: MARCH 9, 2021 RATE: 6 MINUTES PER INCH @ 30 INCHES

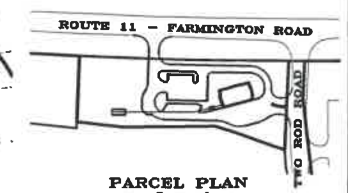
TEST PIT DATA

TEST PIT #6	
0" - 10"	10YR3/2 LOAM TOPSOIL, COMMON ROOTS
10" - 24"	10YR3/2 MEDIUM SANDS, SINGLE GRAIN, LOOSE
24" - 36"	10YR5/6 FINE SAND, SINGLE GRAIN, LOOSE
36" - 68"	10YR5/2 VERY FINE LOAMY SAND, FRIABLE , BLOOKLY, FIRM IN PLACE
68"	REFULSAL ON LEDGE
	NO OBSERVED WATER, NO APPARENT ESHWT

SOILS PER NRCS: CaC - CHARLTON FINE SANDY LOAM, 8 TO 15 % SLOPES



I CERTIFY THAT THE SUBSURFACE DISPOSAL SYSTEM PROPOSED ON THIS PLAN IS IN COMPLIANCE WITH ALL THE CURRENT LOCAL REGULATION AND ORDINANCES OF THE CITY OF ROCHESTER IN EFFECT THE DATE OF THIS PLAN.



PARCEL PLAN
1"=200'

DIG SAFE
1-888-344-7233

GRAPHIC SCALE
20' 0 10' 20' 40'
(IN FEET)
1 INCH = 20 FT.

LOCATION MAP (1" = 1000')

PROPOSED SEPTIC SYSTEM
150 FARMINGTON ROAD
TAX MAP 208, LOT 4
ROCHESTER, NH
FOR
GRANITE STATE CREDIT UNION

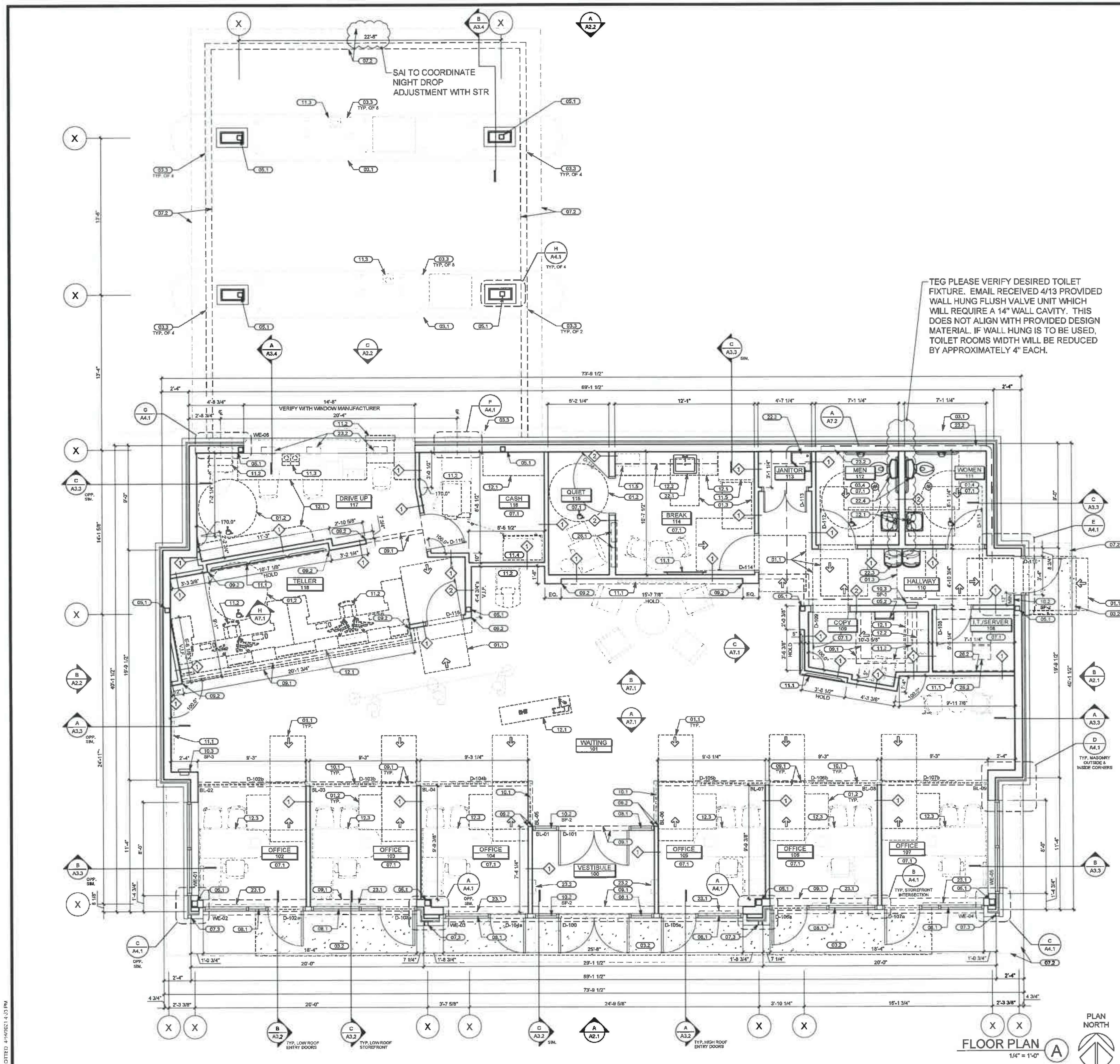
1"= 20' MAY 2021

REVISIONS:

NORWAY PLAINS ASSOCIATES, INC.
P.O. BOX 249
ROCHESTER, NH 03866
603-335-3948

NEW HAMPSHIRE Designer of Subsurface Disposal Systems
Scott A. Lawler No.1818
Department of Environmental Services

DESIGNED BY:	SAL
CHECKED BY:	AFR
FILE NO. 116	PLAN NO. SSD
DWG.#20229 SS-1	



GENERAL NOTES: FLOOR PLAN

1. REFER TO G1.2 SHEET FOR ALL ABBREVIATIONS & SYMBOLS.
2. VERIFY ALL EQUIPMENT (INCLUDING BANK EQUIPMENT) OPENINGS & LOCATIONS. EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. LOCATIONS & SIZES SHOWN ARE FOR INTENT PURPOSES ONLY. ADJUST ROUGH OPENINGS & LOCATIONS AS REQUIRED PER ACTUAL EQUIPMENT.
3. DOOR JAMBS ARE 4" FROM NEAREST ADJACENT INTERSECTING PARTITION UNLESS NOTED OTHERWISE. SEE DOOR DETAILS FOR FURTHER INFORMATION.
4. CONTRACTOR TO PROVIDE & INSTALL ALL IN-WALL OR IN-CEILING BLOCKING/BRACING AS REQUIRED FOR ALL MILLWORK ITEMS, EQUIPMENT, SHELVING, & ACCESSORIES WHETHER ITEMS ARE BY CONTRACTOR OR OTHERS. COORDINATE WITH OWNER'S REPRESENTATIVE.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE SPACE PRIOR TO COMMENCING WORK & SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
6. REFER TO A5.1 FOR FLOOR, WALL, & OTHER FINISHES.
7. REFER TO CIVIL DRAWINGS FOR FINISHED CONCRETE FLOOR ELEVATION. ARCHITECTURAL DRAWINGS INDICATE ELEVATION OF 100'-0" FOR REFERENCE.
8. ALL DOOR FRAME & WINDOW FRAME HEAD/SILL/JAMB DETAILS ARE NOTED IN RESPECTIVE SCHEDULES. REFER TO DRAWINGS A6.1 & A6.2.
9. ALL CONCRETE MASONRY UNITS AND MORTAR TO INCLUDE AN INTEGRAL WATER REPELLENT.
10. ◇—— REFER TO A5.2 FOR PARTITION INFORMATION.
11. FACE OF FOUNDATION ALIGNS WITH EXTERIOR FACE OF SHEATHING.

GENERAL DIMENSIONING NOTES

1. THE GENERAL CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS WITH THE DRAWINGS. IN PARTICULAR OVERALL WALL DIMENSIONS, SOIL CONDITIONS, INCOMING UTILITIES, ETC. THE GENERAL CONTRACTOR IS TO REPORT IMMEDIATELY TO THE ARCHITECT, ANY VARIANCES OR FIELD CONDITIONS THAT MAY CAUSE CONSTRUCTION PROBLEMS PRIOR TO COMMENCING WORK.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. ALL PARTITION LOCATIONS, ALL DOOR AND OPENING LOCATIONS ARE SHOWN ON FLOOR PLAN. IN CASE OF CONFLICT NOTIFY THE ARCHITECT. FLOOR PLAN BY ARCHITECT SUPERSEDES ALL OTHER PLANS. ALL DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL FINISHES INCLUDING CARPET, PAD, CERAMIC TILE, V.C.T. & THE LIKE.
3. ALL INTERIOR DIMENSIONS SHOWN ARE TO FACE OF CONCRETE FOUNDATION OR STUD FRAMING UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL DIMENSIONS ON ARCHITECTURAL DRAWINGS LOCATING STRUCTURAL ELEMENTS ARE TO CENTERLINE OF STEEL COLUMNS AND STEEL BEAMS UNLESS NOTED OTHERWISE.
5. ALL EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING AND ALIGN WITH FACE OF FOUNDATION, UNLESS SPECIFICALLY NOTED OTHERWISE.
6. ALL DIMENSIONS SHOWN LOCATING WINDOWS AND BORROWED LIGHTS ARE TO ROUGH OPENING OF WINDOW, UNLESS SPECIFICALLY NOTED OTHERWISE.
7. ALL INTERIOR STUD WALLS ARE 3 5/8" METAL FRAMING STUDS UNLESS NOTED OTHERWISE ON THE FLOOR PLAN AND PARTITION SCHEDULE.

CODED NOTES: FLOOR PLAN

##.#

NOTE: THE DIVISION OF CODED NOTING SYSTEM DOES NOT CONTROL THE DIVISION OF WORK AMONG TRADES NOR THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. REFER TO RESPONSIBILITY SCHEDULE ON DRAWING G1.2 FOR ADDITIONAL INFORMATION.

DIVISION 01 - GENERAL REQUIREMENTS

01.1 MAINTAIN REQUIRED DOOR CLEARANCE AREA FOR ACCESSIBILITY, EACH SIDE OF DOOR; REFER TO A7.2 FOR ADDITIONAL INFORMATION.
01.2 MAINTAIN REQUIRED CLEAR TURNING CIRCLE OR "T-TURN" AREA PER APPLICABLE CODES.
01.3 MAINTAIN REQUIRED FLOOR CLEAR AREA FOR ACCESSIBILITY.

DIVISION 03 - CONCRETE

03.1 FACE OF CONCRETE CURB; REFER TO CIVIL DRAWINGS.
03.2 CONCRETE STOOP; REFER TO STRUCTURAL DRAWINGS.
03.3 CONCRETE FILLED STEEL PIPE BOLLARD; REFER TO CIVIL DRAWINGS.
03.4 SLOPE CONCRETE FLOOR TO FLOOR DRAIN WITHIN 2'-0" RADIUS OF DRAIN PRIOR TO FLOOR FINISH INSTALLATION. MAX 2% FINISH SLOPE.

DIVISION 05 - METALS

05.1 STEEL COLUMN; REFER TO STRUCTURAL DRAWINGS.
05.2 PRE-MANUFACTURED ROOF ACCESS LADDER; REFER TO A10.2 FOR DETAILS.

DIVISION 07 - THERMAL & MOISTURE PROTECTION

07.1 PROVIDE & INSTALL SOUND BATT INSULATION FOR FULL HEIGHT OF ALL INTERIOR PERIMETER WALLS & 6" ON TOP OF LAY-IN CEILING IN ROOM. HOLD INSULATION TIGHT TO ONE FACE & TAPE INTO PARTITION. CLOSE & CAULK ALL GAPS AT FLOOR BY SETTING FLOOR RUNNER ON TWO CONTINUOUS CAULK BEADS (REFER TO PARTITION TYPES). OMIT BATT INSULATION OVER LAY-IN LIGHTING FIXTURE OR BUILD AN APPROVED "TENT" AROUND THE LIGHTS TO KEEP INSULATION MIN. 6" AWAY FROM FIXTURE.
07.2 DASHED LINE INDICATES DRIVE UP CANOPY, CANOPY/AWNING, OR ROOF OVERHANG ABOVE.
07.3 DOWNSPOUT; REFER TO ROOF PLAN AND CIVIL ENGINEERING DRAWINGS.

DIVISION 08 - OPENINGS

08.1 ALUMINUM STOREFRONT WINDOW FRAMING SYSTEM; REFER TO WINDOW SCHEDULE.

DIVISION 09 - FINISHES

09.1 DASHED LINE INDICATES CEILING TRANSITION ABOVE; REFER TO REFLECTED CEILING PLAN.
09.2 ALIGN FACE OF DRYWALL SOFFIT ABOVE WITH FACE OF DRYWALL.

DIVISION 10 - SPECIALTIES (REFER TO RESPONSIBILITY SCHEDULE FOR ADDITIONAL INFORMATION)

10.1 DEMOUNTABLE WALL SYSTEM WITH GLAZING AND SLIDING DOORS BY VENDOR. G.C. TO CENTER DEMOUNTABLE SYSTEM ON SOFFIT ABOVE.
10.2 EXIT SIGNAGE; REFER TO A7.2 FOR ADDITIONAL INFORMATION.
10.3 FIRE EXTINGUISHER CABINET. COORDINATE FINAL LOCATION WITH THE LOCAL FIRE AUTHORITY; REFER TO A7.2 FOR ADDITIONAL INFORMATION.

DIVISION 11 - EQUIPMENT (REFER TO RESPONSIBILITY SCHEDULE FOR ADDITIONAL INFORMATION)

11.1 WALL HUNG MONITOR OR MARKETING GRAPHIC. MONITORS ARE NOT TO PROTRUDE MORE THAN 4" BEYOND FACE OF WALL. CONTRACTOR TO COORDINATE LOCATION WITH OWNER & PROVIDE ALL ELECTRICAL CONNECTIONS & WALL BLOCKING AS REQUIRED; REFER TO DETAILS ON A5.2 FOR ADDITIONAL INFORMATION.
11.2 BANK EQUIPMENT. CONTRACTOR TO COORDINATE LOCATION WITH OWNER & PROVIDE ALL ELECTRICAL CONNECTIONS & WALL BLOCKING AS REQUIRED; REFER TO DETAILS ON A5.2 FOR ADDITIONAL INFORMATION.
11.3 VAT SYSTEM. CONTRACTOR TO COORDINATE INSTALLATION, POWER, & BLOCKING/SUPPORT REQUIREMENTS WITH SYSTEM MANUFACTURER.
11.4 CASH SAFE.
11.5 APPLIANCE. CONTRACTOR TO COORDINATE & PROVIDE ALL CONNECTIONS.

DIVISION 12 - FURNISHINGS (REFER TO RESPONSIBILITY SCHEDULE FOR ADDITIONAL INFORMATION).

12.1 MILLWORK UNIT. CONTRACTOR TO COORDINATE BLOCKING, ELECTRICAL, & DATA REQUIREMENTS WITH MILLWORK SHOP DRAWINGS.
12.2 DASHED LINE INDICATES SHELVING OR CABINETRY ABOVE. CONTRACTOR TO COORDINATE BLOCKING & ELECTRICAL REQUIREMENTS WITH MILLWORK SHOP DRAWINGS.
12.3 OFFICE FURNITURE. CONTRACTOR TO CONFIRM FINAL FURNITURE SELECTION WITH OWNER'S REPRESENTATIVE & COORDINATE ANY CRITICAL DIMENSIONS PRIOR TO LAYOUT OF WALLS.

DIVISION 22 - PLUMBING (REFER TO THE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION).

22.1 SINK.
22.2 UTILITY SINK WITH WATER HEATER LOCATED ON PLATFORM ABOVE. MOP & BROOM HOLDER INSTALLED ON ADJACENT WALL; REFER TO A7.2 & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
22.3 HI-LO DRINKING FOUNTAIN.
22.4 ACCESSIBLE WATER CLOSET.

DIVISION 23 - HVAC (REFER TO HVAC DRAWINGS FOR ADDITIONAL INFORMATION).

23.1 BASE BOARD HEATER.
23.2 ELECTRIC CABINET UNIT HEATER. G.C. TO GUARANTEE UNIT IS INSTALLED OUTSIDE THE REQUIRED ACCESSIBILITY CLEARANCES OF FIXTURES & DOORS.

DIVISION 26 - ELECTRICAL (REFER TO THE ELECTRICAL DRAWINGS FOR SCOPE & ADDITIONAL INFORMATION).

26.1 ELECTRICAL PANELS & EQUIPMENT.
26.2 3/4" FRT PLYWOOD PHONE BOARD. CONTRACTOR TO COORDINATE SIZE AND LOCATION WITH THE OWNER'S REPRESENTATIVE. PRIME & PAINT.
26.3 IT RACK.

TEG PLEASE VERIFY LOCATION IN IT/SERVER ROOM IS ACCEPTABLE.

REVISIONS:

* INDICATES NO REVISION TO THIS SHEET

DATE ISSUED: 4/16/2021

SHREMSHOCK

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Granite State credit union

148-150 FARMINGTON ROAD
ROCHESTER, NH 03867

FLOOR PLAN

DRAWN BY: KNG CHECKED BY: TEM

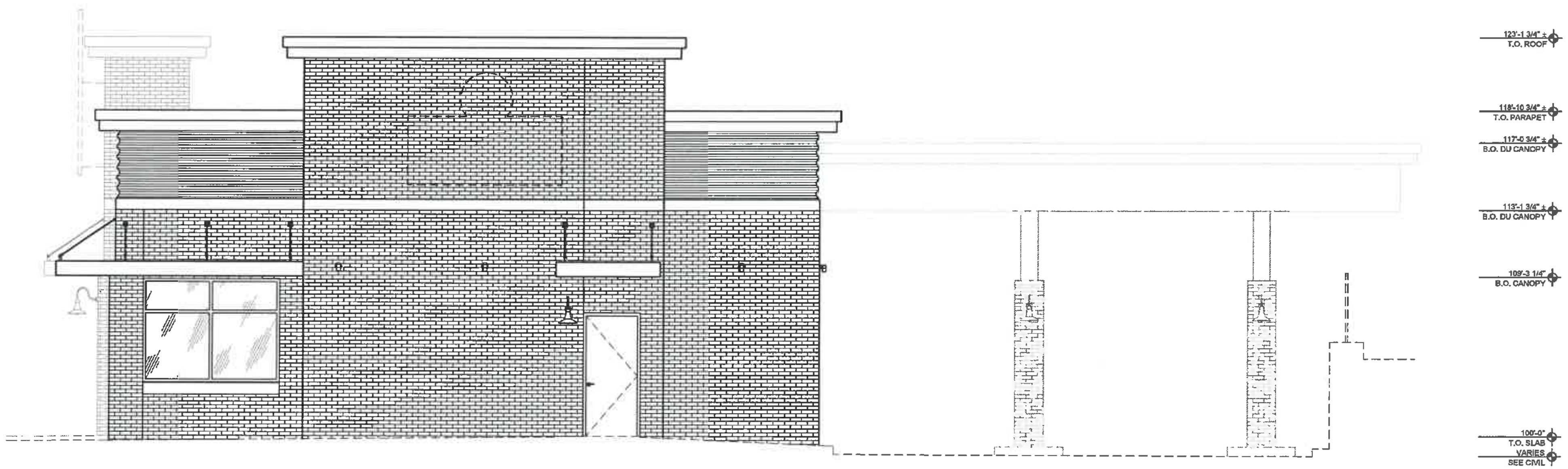
PRELIMINARY NOT FOR CONSTRUCTION

SAI # 200421

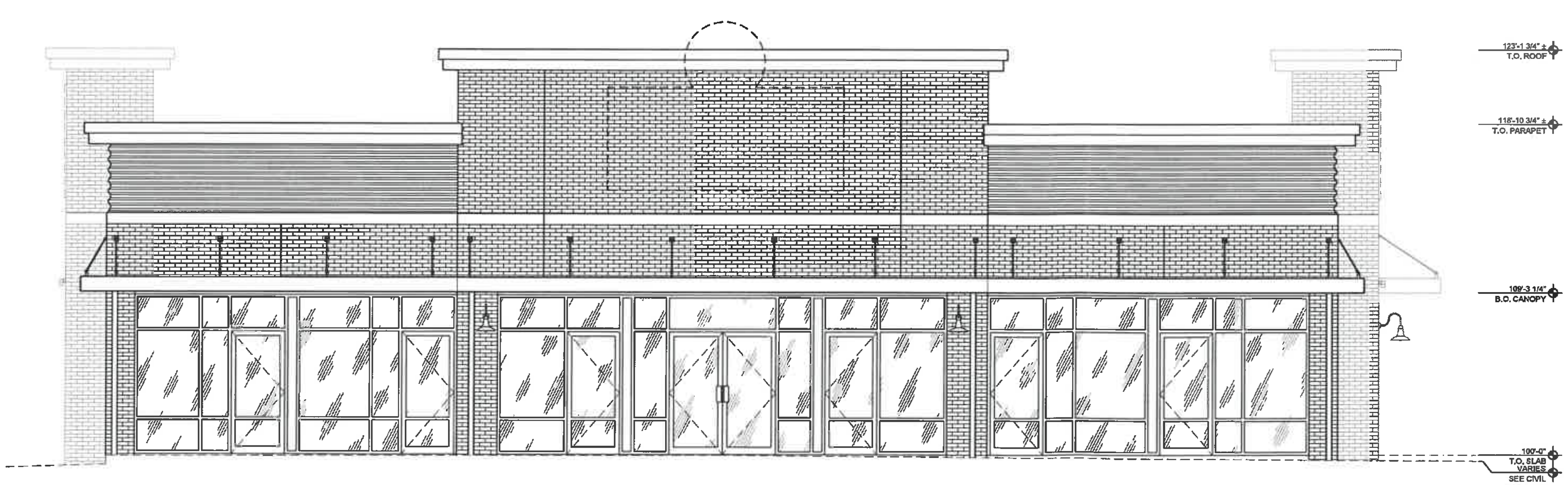
DRAWING NUMBER:

A1.1

GENERAL NOTE:
SIGN MANUFACTURER SHALL PROVIDE ALL BRACKETING AND SUPPORTS FOR SIGNAGE. ALL SUPPORTS, CONDUITS, ETC. SHALL BE MADE WEATHER TIGHT BY SIGN INSTALLER VIA BOTH FLASHINGS AND SEALANTS.



NORTH ELEVATION (B)
1/4" = 1'-0"



EAST ELEVATION (A)
1/4" = 1'-0"

GENERAL NOTES: EXTERIOR ELEVATIONS

1. REFER TO FINISH SCHEDULE FOR ALL INTERIOR FINISHES.
2. REFER TO FLOOR PLAN & DOOR & WINDOW SCHEDULES FOR ADDITIONAL INFORMATION.
3. ALL EXPOSED ALUMINUM MATERIALS TO BE CONSISTENT & MATCH. THIS INCLUDES STOREFRONT FRAMING, DOORS, AWNINGS & INTEGRATED BRAKE METAL PANELS.
4. AS INDICATED IN SPECIFICATIONS & NOTED ON SUBMITTAL SCHEDULE, SUBMIT SHOP DRAWINGS THAT SHOW COMPLETE EXTERIOR PANEL CLADDING SYSTEMS INCLUDING ALL MATERIALS, TRANSITION DETAILS, HORIZONTAL & VERTICAL PANEL JOINTS, & SEALANT REQUIREMENTS.

CODED NOTES: EXTERIOR ELEVATIONS (##.#)

NOTE: THE DIVISION OF CODED NOTING SYSTEM DOES NOT CONTROL THE DIVISION OF WORK AMONG TRADES NOR THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. REFER TO RESPONSIBILITY SCHEDULE ON DRAWING G1.2 FOR ADDITIONAL INFORMATION.

DIVISION 03 - CONCRETE
- 03.1 CONCRETE STOOP. SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT MIN. AND 1/4" PER FOOT MAX. AT WALKING SURFACES, REFER TO CIVIL DRAWINGS.
- 03.2 CONCRETE SIDEWALK. SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT MIN. AND 1/4" PER FOOT MAX. AT WALKING SURFACES, REFER TO CIVIL DRAWINGS.
- 03.3 CONCRETE CURB; REFER TO CIVIL DRAWINGS.

DIVISION 04 - MASONRY
- 04.1 MODULAR BRICK VENEER.
- 04.2 PRECAST CONCRETE SILL.
- 04.3 PRECAST CONCRETE ACCENT BAND.

DIVISION 07 - THERMAL & MOISTURE PROTECTION
- 07.1 PREFINISHED METAL FASCIA.
- 07.2 SELF-ADHERING FLEXIBLE SADDLE FLASHING AT ALL HI-LOW WALL INTERSECTIONS, UNDER COPING & WALL PANEL, EXTEND MINIMUM 6" BEHIND EXPOSED FINISH MATERIALS AT DRAINAGE PLANE.
- 07.3 FIBER CEMENT WALL PANEL SYSTEM.
- 07.4 PREFINISHED METAL DRIP EDGE GRAVEL STOP.
- 07.5 PREFINISHED ALUMINUM DOWNSPOUT; REFER TO CIVIL DRAWINGS FOR CONNECTION TO STORM DRAIN.
- 07.6 INSULATED METAL WALL PANEL SYSTEM.

DIVISION 08 - OPENINGS
- 08.1 DOOR & FRAME; REFER TO DOOR SCHEDULE.
- 08.2 ALUMINUM STOREFRONT WINDOW SYSTEM; REFER TO WINDOW SCHEDULE.

DIVISION 10 - SPECIALITIES (REFER TO RESPONSIBILITY SCHEDULE)
- 10.1 SIGNAGE BY VENDOR & SUBMITTED UNDER SEPARATE PERMIT. CONNECTION TO FRAMING & BLOCKING TO BE VERIFIED BY SIGNAGE COMPANY/DESIGNER.

DIVISION 11 - EQUIPMENT (REFER TO RESPONSIBILITY SCHEDULE)
- 11.1 NIGHT DEPOSIT BOX.
- 11.2 DRIVE-UP ITM.
- 11.3 VAT SYSTEM.

DIVISION 22 - PLUMBING (REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION)
- 22.1 GAS METER.
- 22.2 FROST-PROOF HOSE BIB.
- 22.3 BRASS DOWNSPOUT NOZZLE "LAMBS TONGUE" SECONDARY ROOF OVERFLOW. DISCHARGE AT 12" MIN. ABOVE GRADE.

DIVISION 23 - HVAC (REFER TO HVAC DRAWINGS FOR MORE INFORMATION)
- 23.1 APPROXIMATE LOCATION OF MECHANICAL UNITS.

DIVISION 26 - ELECTRICAL (REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION)
- 26.1 EXTERIOR WALL MOUNTED LIGHT FIXTURE.
- 26.2 ELECTRICAL CABINET AND METER.
- 26.3 DRIVE LANE SIGNAGE. COORDINATE ELECTRICAL REQUIREMENTS AND ATTACHMENTS WITH SIGN MANUFACTURER. VERIFY DRIVE UP LANE CANOPY CLEARANCE IN FIELD.

DIVISION 32 - EXTERIOR IMPROVEMENTS (REFER TO CIVIL DRAWINGS FOR MORE INFORMATION)
- 32.1 APPROXIMATE PROPOSED GRADE AT FACE OF BUILDING.

EXTERIOR FINISH SCHEDULE

BR-1	GENERAL SHALE TYPE: MODULAR FULL BRICK COLOR: CULPEPPER MORTAR: SPECMIX SM-100 GREY
CS-1	NORTHERN DESIGN SIZE: 7 5/8" H x 3 5/8" W x XX'-XX" L TYPICAL TYPE: ACCENT BAND & SILL COLOR: NATURAL - 4 MORTAR: SPECMIX SM-100 GREY
FCP-1	JAMES HARDIE COLLECTION: HARDIE PANEL - SMOOTH SIZE: 4' x 8' COLOR: COBBLESTONE
MT-1	MCBI COLLECTION: 7.2 INSUL-RIB INSULATED METAL PANEL SIZE: 3" HORIZONTAL COLOR: 300 SIGNATURE SILVER METALLIC
MT-2	HEAVY GAGE METAL FASCIA COLOR: BLACK

TEG PLEASE PROVIDE DESIRED LENGTH (MAX.) OF CASE SILL/ACCENT BAND SECTIONS.

EXTERIOR GLAZING LEGEND

NOTE: REFER TO WINDOW SCHEDULE FOR MORE INFORMATION

1" GLAZING

REVISIONS:

*INDICATES NO REVISION TO THIS SHEET
DATE ISSUED:
4/16/2021

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Granite State credit union
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EXTERIOR ELEVATIONS

DRAWN BY: KNG
CHECKED BY: TEM

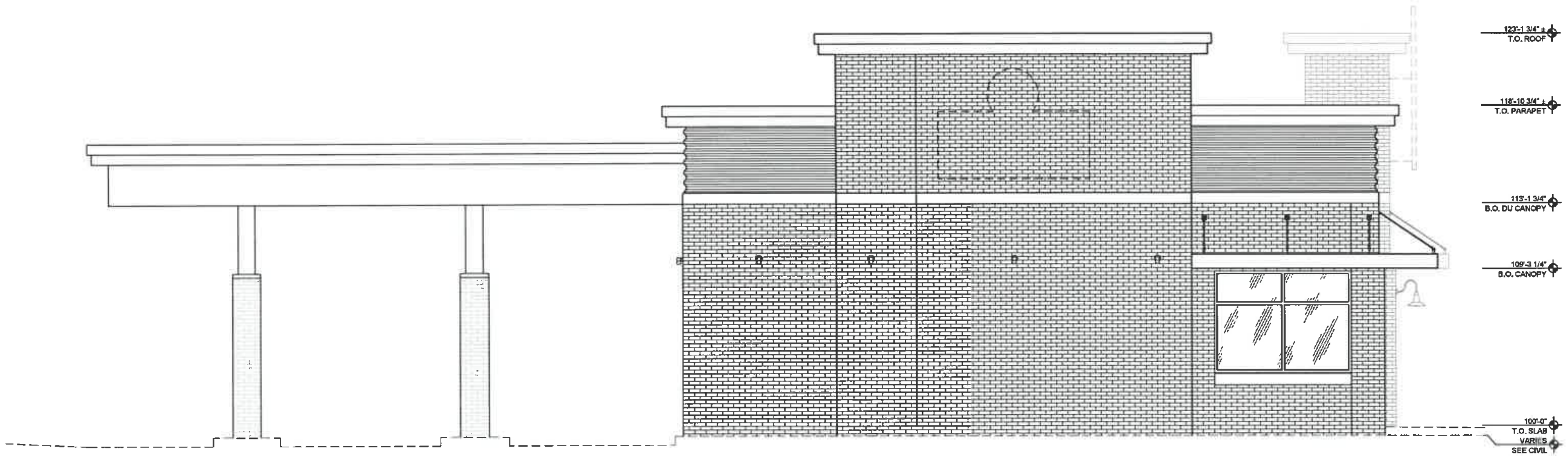
PRELIMINARY NOT FOR CONSTRUCTION

SAI # 200421

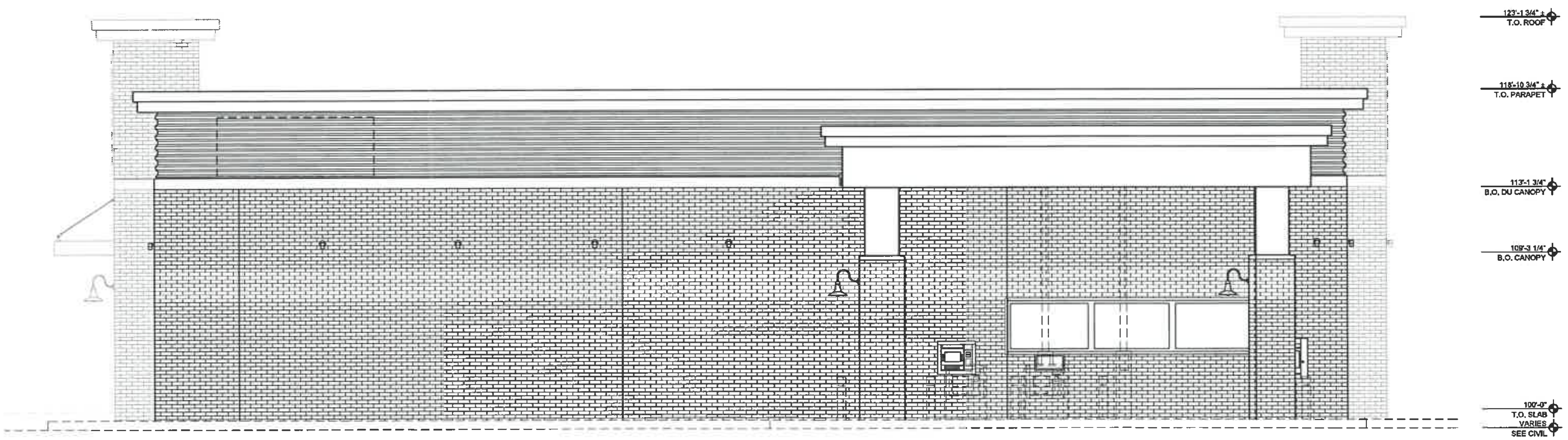
DRAWING NUMBER:
A2.1

PLOTTED: 4/16/2021 4:01 PM

GENERAL NOTE:
SIGN MANUFACTURER SHALL PROVIDE ALL BRACKETING AND SUPPORTS FOR SIGNAGE. ALL SUPPORTS, CONDUITS, ETC. SHALL BE MADE WEATHER TIGHT BY SIGN INSTALLER VIA BOTH FLASHINGS AND SEALANTS.



SOUTH ELEVATION (B)
1/4" = 1'-0"



WEST ELEVATION (A)
1/4" = 1'-0"

GENERAL NOTES: EXTERIOR ELEVATIONS

1. REFER TO FINISH SCHEDULE FOR ALL INTERIOR FINISHES.
2. REFER TO FLOOR PLAN & DOOR & WINDOW SCHEDULES FOR ADDITIONAL INFORMATION.
3. ALL EXPOSED ALUMINUM MATERIALS TO BE CONSISTENT & MATCH. THIS INCLUDES STOREFRONT FRAMING, DOORS, AWNINGS & INTEGRATED BRAKE METAL PANELS.
4. AS INDICATED IN SPECIFICATIONS & NOTED ON SUBMITTAL SCHEDULE, SUBMIT SHOP DRAWINGS THAT SHOW COMPLETE EXTERIOR PANEL CLADDING SYSTEMS INCLUDING ALL MATERIALS, TRANSITION DETAILS, HORIZONTAL & VERTICAL PANEL JOINTS, & SEALANT REQUIREMENTS.

CODED NOTES: EXTERIOR ELEVATIONS (##.#)

NOTE: THE DIVISION OF CODED NOTING SYSTEM DOES NOT CONTROL THE DIVISION OF WORK AMONG TRADES NOR THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. REFER TO RESPONSIBILITY SCHEDULE ON DRAWING G1.2 FOR ADDITIONAL INFORMATION.

DIVISION 03 - CONCRETE
- 03.1 CONCRETE STOOP. SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT MIN. AND 1/4" PER FOOT MAX. AT WALKING SURFACES. REFER TO CIVIL DRAWINGS.
- 03.2 CONCRETE SIDEWALK. SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT MIN. AND 1/4" PER FOOT MAX. AT WALKING SURFACES. REFER TO CIVIL DRAWINGS.
- 03.3 CONCRETE CURB; REFER TO CIVIL DRAWINGS.

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- 04.1 MODULAR BRICK VENEER.
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- 07.3 FIBER CEMENT WALL PANEL SYSTEM.
- 07.4 PREFINISHED METAL DRIP EDGE GRAVEL STOP.
- 07.5 PREFINISHED ALUMINUM DOWNSPOUT; REFER TO CIVIL DRAWINGS FOR CONNECTION TO STORM DRAIN.
- 07.6 INSULATED METAL WALL PANEL SYSTEM.

DIVISION 08 - OPENINGS
- 08.1 DOOR & FRAME; REFER TO DOOR SCHEDULE.
- 08.2 ALUMINUM STOREFRONT WINDOW SYSTEM; REFER TO WINDOW SCHEDULE.

DIVISION 10 - SPECIALITIES (REFER TO RESPONSIBILITY SCHEDULE)
- 10.1 SIGNAGE BY VENDOR & SUBMITTED UNDER SEPARATE PERMIT. CONNECTION TO FRAMING & BLOCKING TO BE VERIFIED BY SIGNAGE COMPANY/DESIGNER.

DIVISION 11 - EQUIPMENT (REFER TO RESPONSIBILITY SCHEDULE)
- 11.1 NIGHT DEPOSIT BOX.
- 11.2 DRIVE-UP ITM.
- 11.3 VAT SYSTEM.

DIVISION 22 - PLUMBING (REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION)
- 22.1 GAS METER.
- 22.2 FROST-PROOF HOSE BIB.
- 22.3 BRASS DOWNSPOUT NOZZLE "LAMBS TONGUE" SECONDARY ROOF OVERFLOW. DISCHARGE AT 12" MIN. ABOVE GRADE.

DIVISION 23 - HVAC (REFER TO HVAC DRAWINGS FOR MORE INFORMATION)
- 23.1 APPROXIMATE LOCATION OF MECHANICAL UNITS.

DIVISION 26 - ELECTRICAL (REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION)
- 26.1 EXTERIOR WALL MOUNTED LIGHT FIXTURE.
- 26.2 ELECTRICAL CABINET AND METER.
- 26.3 DRIVE LANE SIGNAGE. COORDINATE ELECTRICAL REQUIREMENTS AND ATTACHMENTS WITH SIGN MANUFACTURER. VERIFY DRIVE UP LANE CANOPY CLEARANCE IN FIELD.

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- 32.1 APPROXIMATE PROPOSED GRADE AT FACE OF BUILDING.

EXTERIOR FINISH SCHEDULE

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TEG PLEASE PROVIDE DESIRED LENGTH (MAX.) OF CASE SILL/ACCENT BAND SECTIONS.

EXTERIOR GLAZING LEGEND

NOTE: REFER TO WINDOW SCHEDULE FOR MORE INFORMATION

1" GLAZING

REVISIONS:

* INDICATES NO REVISION TO THIS SHEET

DATE ISSUED: 4/16/2021

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EXTERIOR ELEVATIONS

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